EXHIBIT 8

| US 9,369,545 | Accused Instrumentality |
|---|--|
| 1. A computer- implemented method of obtaining content over a network and displaying the content to a user, the method being implemented in a client computing device in operative communication with a | DoDots currently does not take a position as to whether the preamble of claim 1 is limiting. Notwithstanding this position, Samsung executes, operates, uses, and has direct control over a computer-implemented method of obtaining content over a network (such as the internet) and displaying the content to a user that is implemented on each and every Accused Samsung Device. They all include electronic storage, a display, and one or more processors configured to execute one or more computer program modules: Specifically, the client computing devices includes, but are not limited to the Samsung Galaxy Z Series Mobile Phones, Galaxy S Series Mobile Phones, Galaxy Note Series Mobile Phones, Galaxy Tab Series Tablets |
| server over a network, the client computing device including electronic storage, a display, and one or more processors | (collectively, "Accused Samsung Devices"). DoDots reserves the right to identify additional client computing devices to the extent additional devices are revealed during discovery. Examples of the Galaxy S Series Mobile Phones are seen in the image below: |
| configured to execute one or more computer program modules, the method comprising: | The state of the s |
| | Source: Dolcourt, et. al., <i>Here's every Galaxy S phone since</i> 2010, CNET Website (February 8, 2019) (accessed at (https://www.cnet.com/pictures/evolution-history-samsung-galaxy-phones/) |

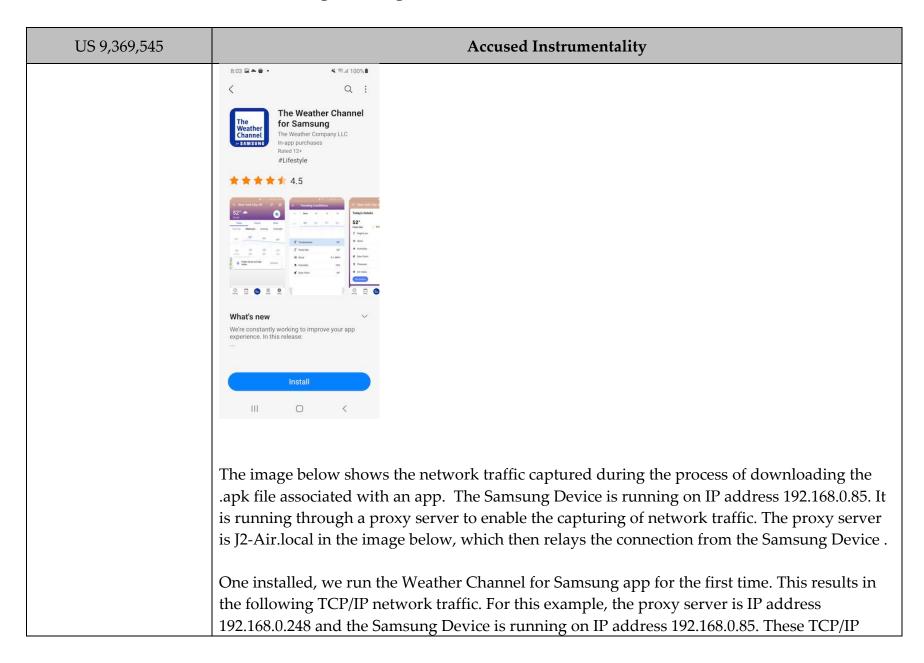
| US 9,369,545 | Accused Instrumentality |
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| | Additionally, with each Accused Samsung Devices, Samsung launched and continues to operate, use, and sell an operating system customized from the Android OS (e.g. Android OS12, OS 11, QOS 10, Pie (9.0),Oreo (8.0), Nougat (7.0), Marshmallow (6.0), Lollipop (5.0), KitKat (4.4), Jellybean (4.3, 4.2 and 4.1), Ice Cream Sandwich (4.0), Honeycomb (3.0), Gingerbread (2.3), Froyo (2.2), Éclair (2.1), Donut (1.6) (collectively, "the Samsung OS") along with other software (e.g., installers, the Play Store app, and the Galaxy App Store app) that are pre-installed or updated on each Accused Samsung Device (the "Accused Samsung Software"). Samsung programmed, customized, preinstalled, and developed the Accused Samsung Software specifically for its Accused Samsung Devices and is directly responsible for and has |
| | In summary, the Accused Samsung Devices and Samsung OS along with other software (collectively, the "Accused Instrumentalities") infringe the computer-implemented method of obtaining content over a network (such as the internet) and displaying the content to a user that is implemented on each and every Accused Samsung Device. |
| | The client computing device (Samsung Galaxy Phone) includes electronic storage (<i>e.g.</i> , RAM, ROM), a display (<i>e.g.</i> , OLED display), and one or more processors configured to execute one or more computer program modules (<i>e.g.</i> , programs enabled by the processor and memory/hard drive). |
| | Furthermore, on information and belief, code on the Accused Instrumentalities, which is not publicly available, will demonstrate that the Accused Instrumentalities meet this limitation. Additionally, on information and belief, all variations of the Accused Instrumentalities operate in the same infringing manner |

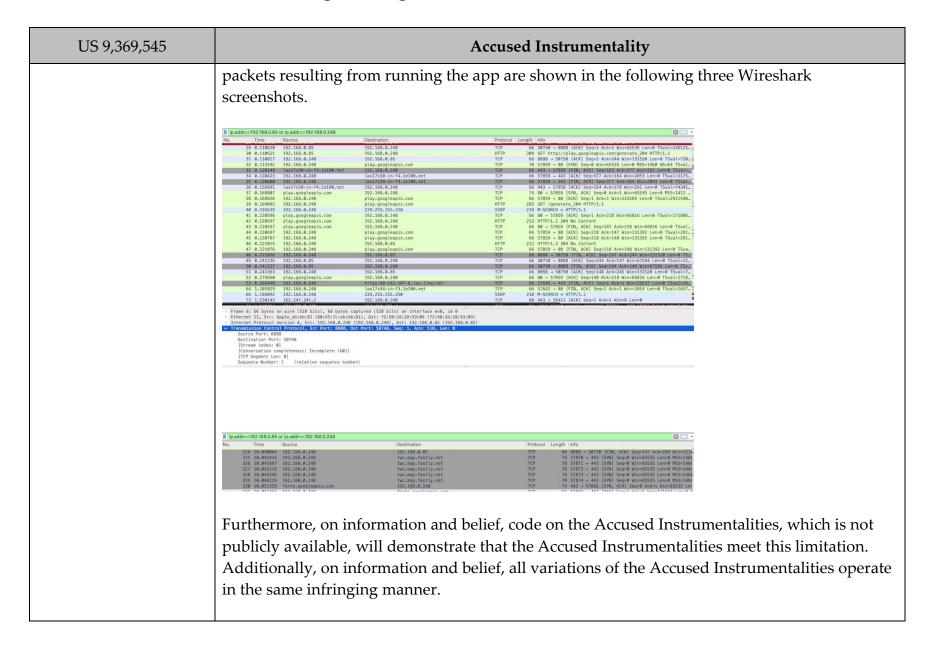
Exhibit C: Samsung's Infringement of United States Patent No. 9,369,545

| US 9,369,545 | Accused Instrumentality | | |
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| transmitting a request to the server over the network, the request requesting networked information monitor template; | The Accused Instrumentalities transmits a request to a server over the network, the request requesting a networked information monitor template. The request that is transmitted is for an .apk file, which includes the NIM template. Specifically, as an example, this is initiated when a user taps the install button within the Galaxy App Store app. As seen in the image below: | | |
| | Samsung The Weather Channel for Samsung The Weather Company LLC bready Cannel for Samsung The Weather Channel for Samsung The Weather Company LLC bready Cannel for Samsung The Weather Channel for Samsung The Weather | | |
| | | | |

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| Accused Instrumentality |
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| Furthermore, on information and belief, code on the Accused Instrumentalities, which is not publicly available, will demonstrate that the Accused Instrumentalities meet this limitation. Additionally, on information and belief, all variations of the Accused Instrumentalities operate in the same infringing manner. |
| The Accused Instrumentalities receive the requested networked information monitor template from the server over the internet, the requested networked information monitor template having been transmitted from the server over the network responsive to the transmitted request. |
| In the example below, the Accused Samsung Devices transmit, over a TCP/IP network to a web server at a network location, a content request for content to be displayed within the frame of the viewer graphical user interface defined by the networked information monitor template. The screenshot below shows the screen that is displayed when a user taps to install the Weather Channel for Samsung app from the Galaxy Store app. |
| |

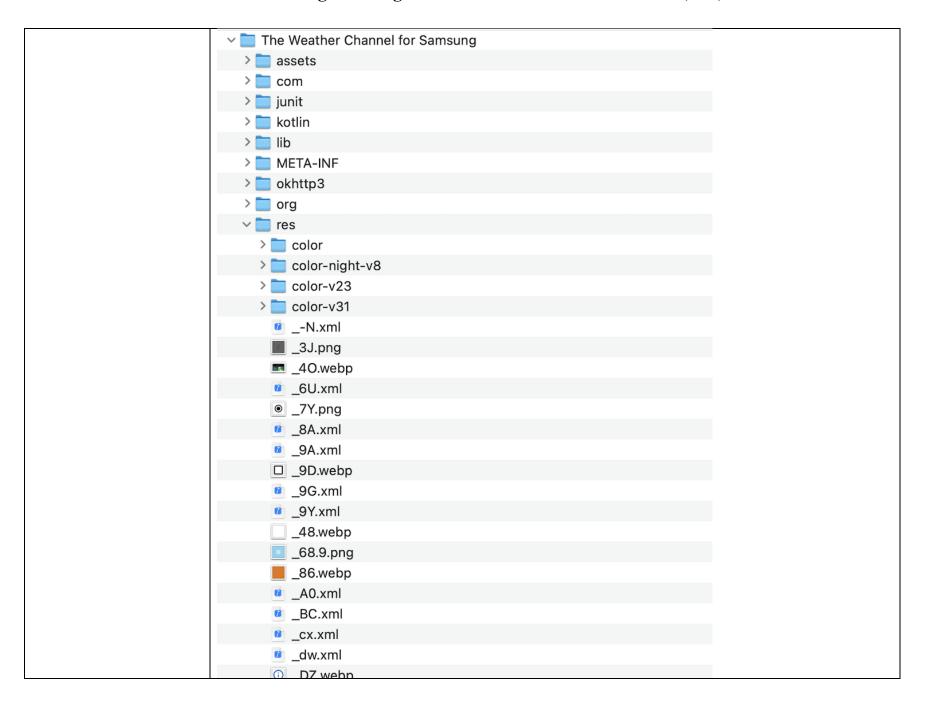




| US 9,369,545 | Accused Instrumentality |
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| a definition of a viewer graphical user interface within which content in a web browser-readable language may be | The Accused Instrumentalities download a networked information monitor template that defines a viewer graphical user interface within which content in a web browser-readable language may be presented on the display of the client computing device. For example, the APK downloaded from the serve includes an XML file. |
| presented on the display of the client computing device; and | In Android development the UI is created using "Layouts" which define 'Views" which are defined in XML and generally create elements the user can view and/or interact with. "A layout defines the structure for a user interface in your app, such as in an activity. All elements in the layout are built using a hierarchy of View and ViewGroup objects. A View usually draws something the user can see and interact with." |
| | According to the Android documentation these elements are created with XML: • "Declare UI elements in XML. Android provides a straightforward XML vocabulary that corresponds to the View classes and subclasses, such as those for widgets and layouts. You can also use Android Studio's Layout Editor to build your XML layout using a drag-and-drop interface." |
| | "Declaring your UI in XML allows you to separate the presentation of your app from the code that controls its behavior. Using XML files also makes it easy to provide different layouts for different screen sizes and orientations" "The Android framework gives you the flexibility to use either or both of these methods to build your app's UI. For example, you can declare your app's default layouts in XML, and then modify the layout at runtime." |

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| | • "Write the XML. Using Android's XML vocabulary, you can quickly design UI layouts and the screen elements they contain, in the same way you create web pages in HTML" | | | |
| | When developing for Android using Android Studio, Layouts are represented in the user interface as XML. | | | |
| | An APK file is a zipped file containing all the project resources. By renaming these files as zip files (changing the file extension from .apk to .zip) the files can be unzipped. After unzipping the apk file, the contents can be viewed as a directory as shown in the image below. Note the resources in the /res directory. These are images used for the UI as well as XML files defining the UI in the NIM template. | | | |



| US 9,369,545 | Accused Instrumentality | | | | |
|--------------|--|--|--------------------------|---------------------------------------|-------------------------------------|
| | can be inspected inspected via the | om the above directory listing using Android Studio. The Al "Profile or Debug APK" feature this capability which displays | PK files ca e. The We | n be opened in Anather Channel App | droid Studio and of for Samsung can |
| | • • • | The Weather Channel for Samsung1 – The Weather Channel for Samsung.a | pk | | |
| | The Weather Channel for Samsung1) all The Weather | Channel for Samsung.apk | sung SM-G981U ▼ ▶ ₫ 🗒 | # G A # Q 4 Q ≠ P | |
| | × | — 🐔 The Weather Channel for Samsung.apk × | | : G | |
| | The Weather Channel for Samsung1 | Libraries (*.so) in the APK are missing debug symbols com.weather.samsung (Version Name: 10.56.0, Version Code: 1056000116) | | Select library to add debug symbols * | |
| | manifests AndroidManifest.xml | APK size: 76.2 MB, Download Size: 40.9 MB | | Compare with previous APK | |
| | > imjava (4 dex files) | File | Raw File Size | Download Size% of Total Download Size | |
| | > lili External Libraries | ® BOQ.json | 36.9 KB | 36.9 KB 0.1% | |
| | ************************************** | ₫ jd1.webp | 35.6 KB | 35.6 KB 0.1% | |
| | " | ₫ ZzK.webp | 34.4 KB 34 KB | 34.4 KB 0.1% | |
| | | ## m3_text_button_ripple_color_selector.xml | 445 B | 445 B 0% | |
| | | amtri_tabs_ripple_color.xml | 418 B 418 B | 418 B 0% 418 B 0% | |
| | | mtri_navigation_bar_ripple_color.xml ma_selection_control_ripple_color_selector.xml | 418 B 375 B | 375 B 0% | |
| | | amtrl_chip_close_icon_tint.xml | 349 B | 349 B 0% | |
| | | <pre># mtrl_tabs_colored_ripple_color.xml # mtrl_navigation_bar_colored_ripple_color.xml</pre> | 332 B 332 B | 332 B 0% 332 B 0% | |
| | | deo_chip_ripple_selector.xml | 326 B | 326 B 0% | |
| | 917 | #mtrl_choice_chip_ripple_color.xml | 324 B | 324 B 0% | |
| | ifracti | 1 xml version="1.0" encoding="utf-8"? | | 91 A V | |
| | .1 | 2 <selector< td=""><td></td><td>Ť g</td><td></td></selector<> | | Ť g | |
| | 2 | <pre>3 xmlns:android="http://schemas.android.com/apk/res/android"></pre> | | Em | |
| | okmai | 5 d <iten< td=""><td></td><td>ulator</td><td></td></iten<> | | ulator | |
| | 8 | 6 android:state_checkable="false" | | | |
| | | 7 android:state_pressed="true" | | I Dec | |
| | riants | <pre>android:color="@attr/0x7f040115" android:alpha="@ref/0x7f07036b" /></pre> | | vice F | |
| | eA Pil | 10 | | ile Ex | |
| | ž. | 11 🖯 <iten< td=""><td></td><td>plorer</td><td></td></iten<> | | plorer | |
| | \$\mathcal{p}\$ Version Control | 12 android:state_focused="true" minal E_Logcat | | Event Log | |
| | a daemon started successfully (19 minutes ago) | | | % EB_ | |
| | | | | | |
| | | | | | |
| | Zooming in was | on wions the VMI recommen rich | ich dofin | s the color of a III. | alamant |
| | Zooning in we c | an view the XML resource wh | icii deillie | es the color of a OT | element. |

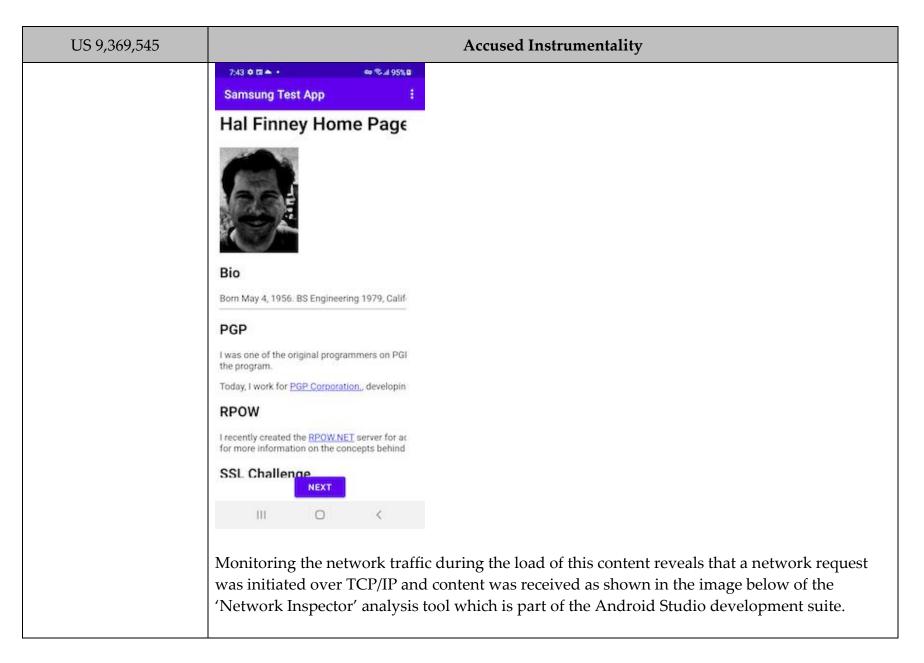
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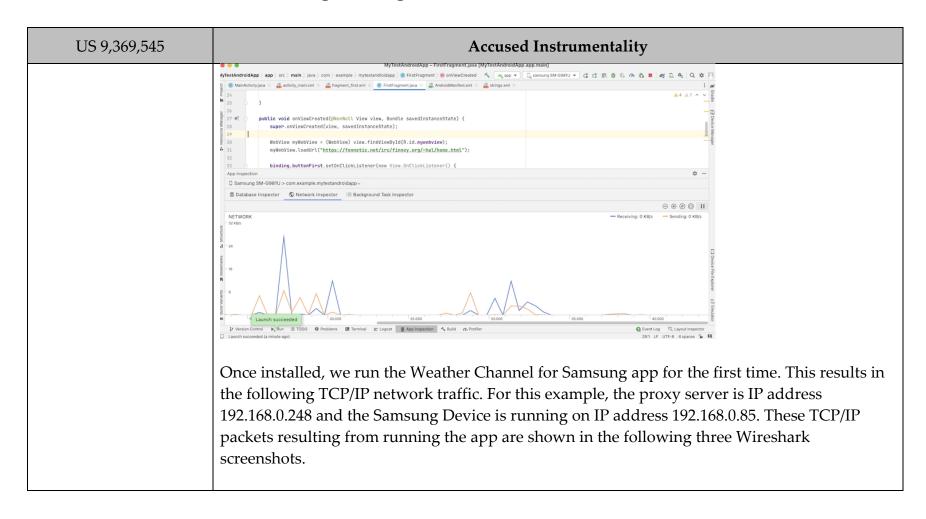
| US 9,369,545 | Accused Instrumentality | | |
|--------------|---|---------------|---------------------------------------|
| =ile | | Raw File Size | Download Size% of Total Download Size |
| ~ | color color | 34 KB | 34 KB 0.1% |
| | ## m3_text_button_ripple_color_selector.xml | 445 B | 445 B 0% |
| | mtrl_tabs_ripple_color.xml | 418 B | 418 B 0% |
| | mtrl_navigation_bar_ripple_color.xml | 418 B | 418 B 0% |
| | m3_selection_control_ripple_color_selector.xml | 375 B | 375 B 0% |
| | mtrl_chip_close_icon_tint.xml | 349 B | 349 B 0% |
| | mtrl_tabs_colored_ripple_color.xml | 332 B | 332 B 0% |
| | mtrl_navigation_bar_colored_ripple_color.xml | 332 B | 332 B 0% |
| | video_chip_ripple_selector.xml | 326 B | 326 B 0% |
| | mtrl_choice_chip_ripple_color.xml | 324 B | 324 B 0% |
| | mtrl_text_btn_text_color_selector.xml | 323 B | 323 B 0% |
| | mtrl_fab_ripple_color.xml | 322 B | 322 B 0% |
| | mtrl_btn_ripple_color.xml | 322 B | 322 B 0% |
| 1 | <pre><?xml version="1.0" encoding="utf-8"?></pre> | | 9 1 ^ v |
| 2 | - <selector< td=""><td></td><td>1</td></selector<> | | 1 |
| 3 | xmlns:android="http://schemas.android.com/apk/res/android"> | | |
| 4 | | | |
| 5 | | | |
| 6 | android:state_checkable="false" | | |
| 7 | android:state_pressed="true" | | |
| 8 | android:color="@attr/0x7f040115" | | |
| 9 | android:alpha="@ref/0x7f07036b" /> | | |
| 10 | | | |
| 11 | <pre><item< pre=""></item<></pre> | | |
| 12 | android:state_focused="true" | | |
| 4.7 | android schole shootship and Salical | | |

| US 9,369,545 | Accused Instrumentality | | | |
|--------------|--|-------------------------|---------------------------------------|-----------------------------------|
| | File | Raw File Size | Download Size% of Total Download Size | |
| | > 🖿 lib | 44.8 MB | 16.1 MB 39.4% | R/ > |
| | ∨ ligres | 7.5 MB | 7.3 MB 17.8% | PKF |
| | a xql.webp | 314.6 KB | 314.7 KB 0.8% | roje |
| | □ Bfr.webp | 295 KB | 292.3 KB 0.7% | 2 |
| | ₫ OAx.webp | 255.4 KB | 250.2 KB 0.6% | |
| | a x4k.webp | 202.4 KB | 202.5 KB 0.5% | |
| | d hSe.webp d 40.webp | 203.4 KB 171 KB | 202 KB 0.5% 171 KB 0.4% | |
| | P7gif | 151.3 KB | 144.2 KB 0.3% | |
| | H_o.webp | 125.2 KB | 125.3 KB 0.3% | |
| | 1wd.webp | 123.9 KB | 123.1 KB 0.3% | |
| | # sq_webp | 117.7 KB | 117.7 KB 0.3% | |
| | # hv7.qif | 215.8 KB | 114.4 KB 0.3% | |
| | | | | |
| | | | 708x524 WEBP (32-bit color) 261.5 kE | © Emulator □ Device File Explorer |
| | References • https://developer.android.co • https://developer.android.co • https://developer.android.co | <u>m/studio/profile</u> | • | nring-layout |
| | Furthermore, on information and be publicly available, will demonstrate Additionally, on information and be in the same infringing manner. | e that the Accuse | ed Instrumentalit | ies meet this limitation. |

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| US 9,369,545 | Accused Instrumentality |
|-------------------------|--|
| a definition of a first | The Accused Instrumentalities download a networked information monitor template that |
| content element for the | defines a first content element for the networked information monitor template, the definition |
| networked information | of the first content element referencing a first network location from which the first content |
| monitor template, the | element for the networked information monitor template is served over the network. |
| definition of the first | - |
| content element | In the example below, the Accused Samsung Devices are provided with content obtained from |
| referencing a first | a TCP/IP network to a web server at a network location, and that content is to be displayed |
| network location from | within the frame of the viewer graphical user interface defined by the networked information |
| which the first content | monitor template. For example, there is a Samsung Test App and running th app on the |
| element for the | Samsung device displays the content as shown below. |
| networked information | |
| monitor template is | |
| served over the | |
| network; | |





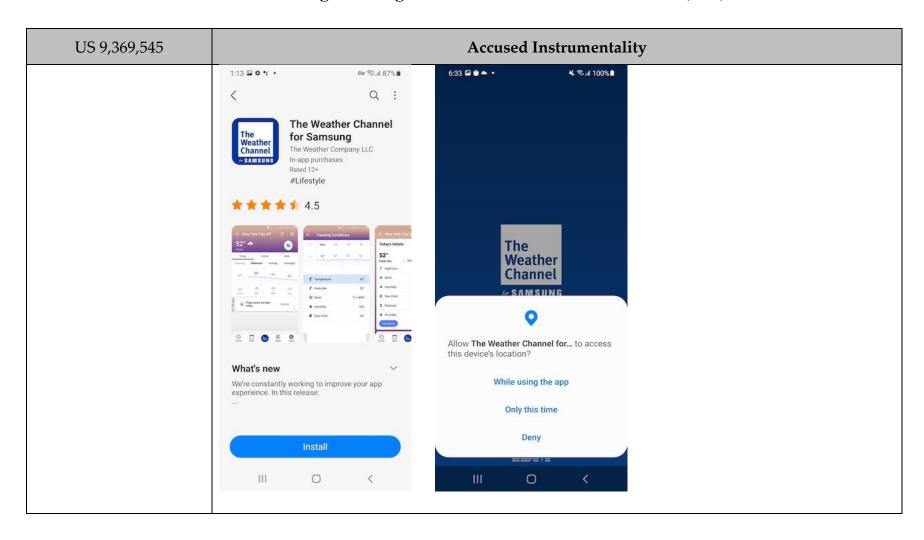
| US 9,369,545 | Accused Instrumentality | | |
|--------------|--|--|--|
| | | | |
| | Fines 6: 66 bytes on wise (130 B) (20 bits), 66 bytes captured (220 bits) en interface end, if 8 | | |
| | This shows that there is a definition of a first content element for the networked information monitor template, the definition of the first content element referencing a first network location from which the first content element for the networked information monitor template is served over the network. Furthermore, on information and belief, code on the Accused Instrumentalities, which is not publicly available, will demonstrate that the Accused Instrumentalities meet this limitation. Additionally, on information and belief, all variations of the Accused Instrumentalities operate in the same infringing manner. | | |

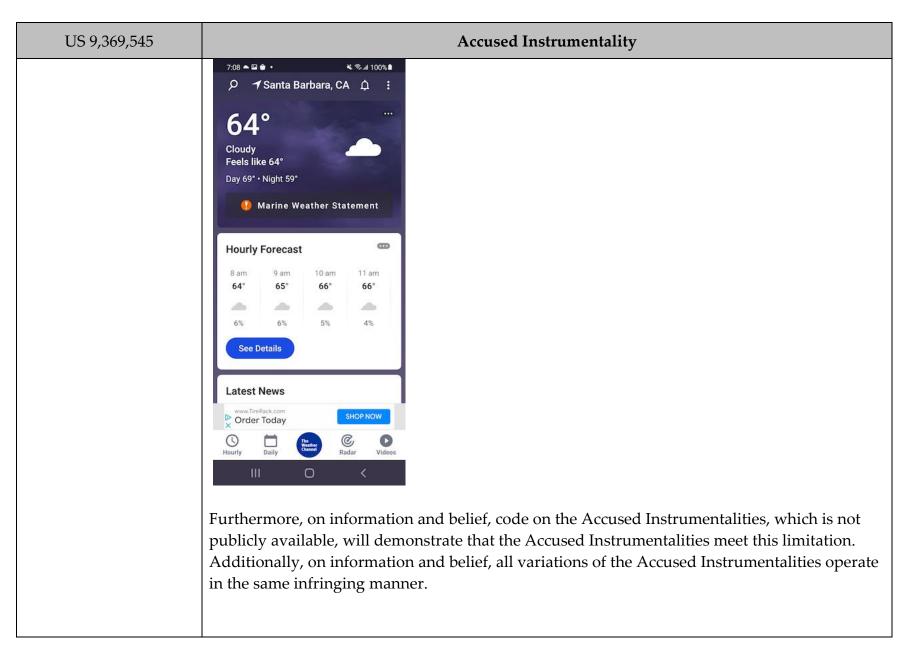
US 9,369,545 **Accused Instrumentality** The Accused Instrumentalities respond to instructions included in the requested network responsive to information template, presenting the viewer graphical user interface defined by the networked instructions included in information monitor on the display of the client computing device separate from and outside the requested networked information of any other graphical user interface that includes user controls for specifying the first network monitor template, location from which the first content element for the networked information monitor is served presenting the viewer over the network. For example in the image below, there is a Weather Channel App. The graphical user interface contents of the app show that content is displayed separate from and outside of any other defined by the graphical user interface. networked information 7:08 - 🖼 🕯 • ¥ %...I 100% ■ monitor on the display 夕 ✓ Santa Barbara, CA △ of the client computing device separate from 64° and outside of any other graphical user Day 69° · Night 59° interface that includes 🚺 Marine Weather Statement user controls for specifying the first **Hourly Forecast** network location from which the first content element for the networked information See Details monitor is served over **Latest News** the network SHOP NOW Order Today

| US 9,369,545 | Accused Instrumentality | | | |
|--------------|--|--|--|--|
| | Additionally, running the Weather Channel for Samsung app for the first time results in the following TCP/IP network traffic. For this example, the proxy server is IP address 192.168.0.248 and the Samsung Device is running on IP address 192.168.0.85. These TCP/IP packets resulting from running the app are shown in the following three Wireshark screenshots. | | | |
| | I ip.addr=192.168.0.85 or ip.addr=192.168.0.248 | | | |
| | No. Time Source Detailed. 29 0.1180.29 120.148.0.85 120.148.0.288 1C 66 39278 - 8888 [ACC] Sept Accel Winnis558 Leave Toyal.22012. 38 0.1180.21 120.148.0.85 120.148.0.28 12 | | | |
| | | | | |
| | Furthermore, on information and belief, code on the Accused Instrumentalities, which is not publicly available, will demonstrate that the Accused Instrumentalities meet this limitation. Additionally, on information and belief, all variations of the Accused Instrumentalities operate in the same infringing manner. | | | |

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| US 9,369,545 | Accused Instrumentality |
|--------------------------|--|
| responsive to | The Accused Instrumentalities responds to instructions included in the requested networked |
| instructions included in | information monitor template, transmitting over the network a first content request to the first |
| the requested | network location referenced by the definition of the first content element for the networked |
| networked information | information monitor template. |
| monitor template, | |
| transmitting over the | After the installer has transferred the .apk file and constructs the instance of the app on the |
| network a first content | client computing device (i.e. installing), the app can be opened. Once the app is opened, a pop |
| request to the first | up asks if for permission for the app to use your location (below right image) and then the user |
| network location | is shown the weather for their specific location. |
| referenced by the | |
| definition of the first | |
| content element for the | |
| networked information | |
| monitor template; | |

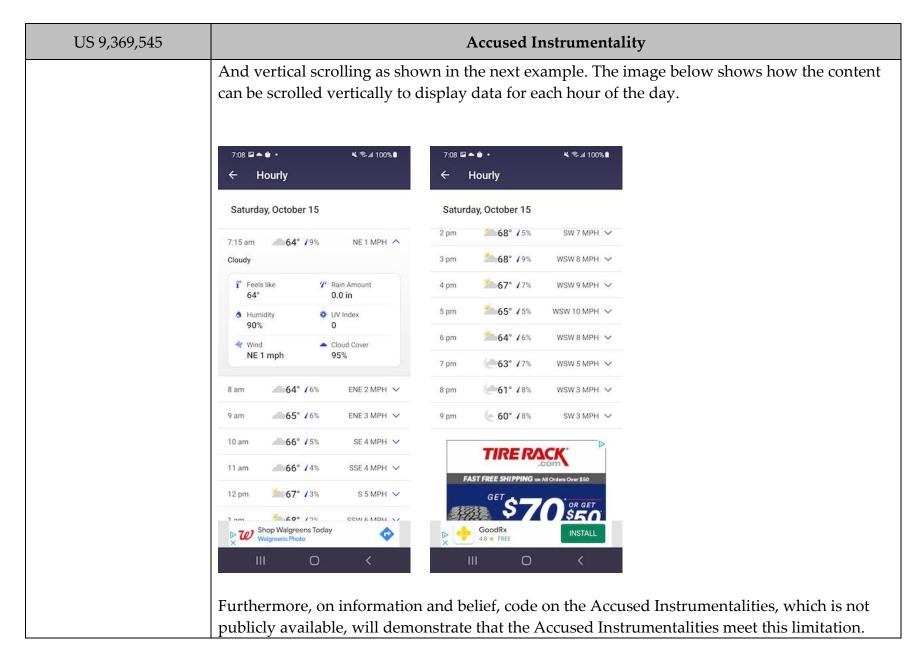




| US 9,369,545 | Accused Instrumentality | | |
|---|---|--|--|
| receiving, over the network, the first content element transmitted responsive to the first content request; | The Accused Instrumentalities receive, over the network, the first content element transmitted responsive to the first content request. Capturing network traffic from the app shows how it received the first content element from the Internet. The following network traffic was captured from after the app was installed and first opened. Once installed, we run the Weather Channel for Samsung app for the first time. This results in the following TCP/IP network traffic. For this example, the proxy server is IP address 192.168.0.248 and the Samsung Device is running on IP address 192.168.0.85. These TCP/IP packets resulting from running the app are shown in the following three Wireshark screenshots. On information and belief this process is similar to how the Accused Instrumentalities are receiving, over the network, the first content element transmitted responsive to the first content request. | | |
| | | | |

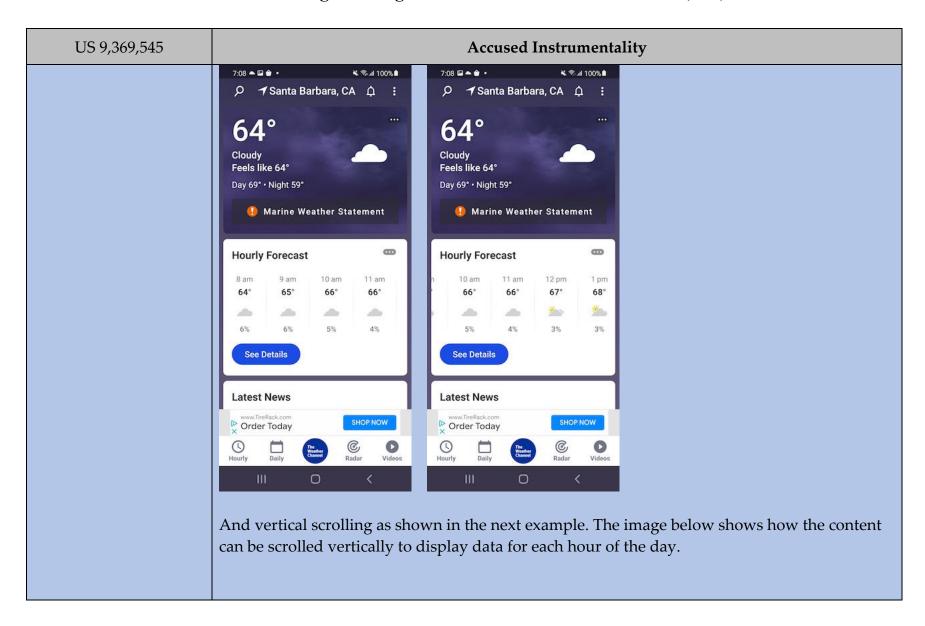
| US 9,369,545 | | A | Accused Instrumen | tality | |
|--|--|--|--|---|---|
| , , | | Destination | Profecol Length Info | | |
| | 324 10.44654 192.166.0.246 32.3.2.46414 192.166.0.248 32.5.2.464167 192.166.0.248 32.5.4.64216 192.166.0.248 32.5.4.64216 192.166.0.248 32.5.4.64229 192.166.0.248 32.5.4.64229 192.166.0.248 33.5.4.64229 192.166.0.248 | 197,166.4.85 197,166.4.85 197,166.4.85 197,166.4.85 197,167,167 197,167,167 197,167,167 197,167,167 197,167,167 197,168.8.746 | TCP 78 57870 - 443 [SW] TCP 78 57871 - 443 [SW] TCP 78 57872 - 443 [SW] TCP 78 57873 - 443 [SW] TCP 78 57873 - 443 [SW] | N, AKK Sep147 Ack-264 Min-1314. Sep0 Min-15525 min MS-1464 Sep0 Min-15535 Lemin MS-1464 AKK Sep0 Akkit Min-15535 Lemin MS-1464 | |
| | 043 11.146330 126,100.0.03 | Destination | Protocol Length Info | ₹ - Src | |
| | 648 11:105699 192:168.0.248 669 11:166465 192:168.0.248 659 11:166465 192:168.0.248 659 11:166465 192:168.0.248 659 11:179221 192:168.0.248 659 11:18060 192:168.0.248 659 11:18060 192:168.0.248 659 11:18060 192:168.0.248 659 11:18060 192:168.0.248 659 11:12028 twmap.fastly.net 659 11:21228 twmap.fastly.net 659 11:21228 twmap.fastly.net 669 11:21228 twmap.fastly.net 669 11:21228 twmap.fastly.net 661 11:21289 twmap.fastly.net 662 11:21289 twmap.fastly.net 662 11:21289 twmap.fastly.net 663 11:21289 twmap.fastly.net 664 11:21289 twmap.fastly.net 665 11:212432 192:168.0.248 666 11:212432 192:168.0.248 667 11:218432 192:168.0.248 667 11:218439 192:168.0.248 668 11:21839 192:168.0.248 669 11:21839 192:168.0.248 669 11:21839 192:168.0.248 669 11:21831 192:168.0.248 | 181), Dst: 12:98:34:28:99:99 (12:98:34:28:99:09) 102:168.62.49) Dst: 192:168.49:55 (192:168.6.85) st Port: 50776, Seq: 5129, Ack: 1019, Len: 0 | TUS-12 983 Citent Hello TUP 66 443 - 57874 [ACK] Seq=6775 Ack=61 TUP 66 443 - 57874 [ACK] Seq=6789 Ack=61 TUS-12 184 Application Data TUS-12 184 Application Data TUS-12 184 Application Data TUS-12 185 Application Data TUS-12 | a, Application Data fr Spec, Encrypted Handshak. | alities, which is not |
| | Additionally, on ir | nformation and be | that the Accused Ir lief, all variations o | | eet this limitation. rumentalities operate |
| | in the same infring | ing manner. | | | |
| presenting the received the first content element in the viewer graphical user interface defined by the networked information | graphical user inte | rface defined by t ewer graphical us ng a user to intera | ent the received first he networked infor er interface and/or ct with the first con | mation monitor te the first content el | emplate, wherein the ement define all |

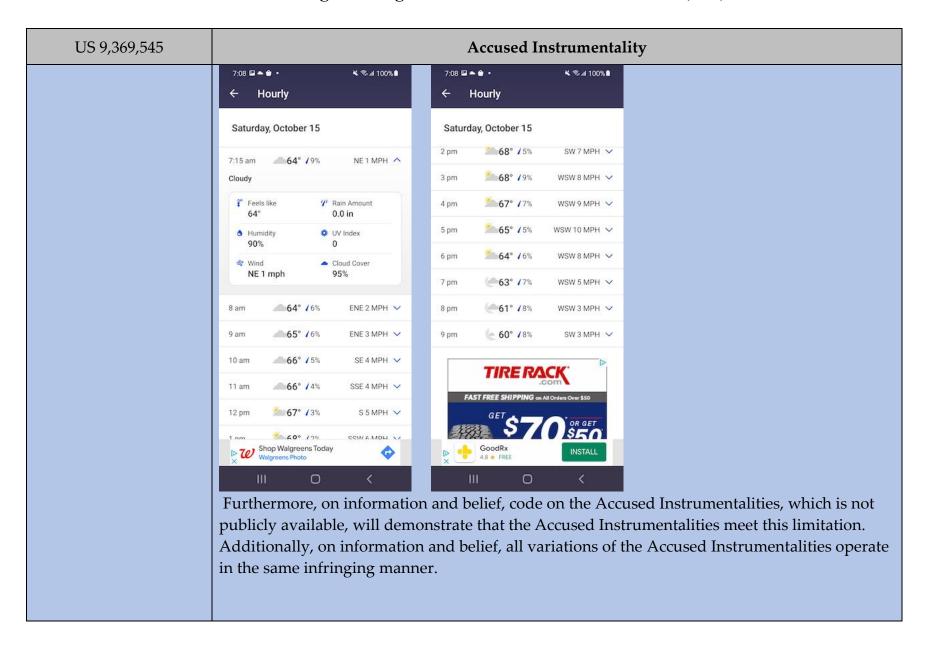
| US 9,369,545 | Accused Instrumentality | | |
|---------------------------|---|--|--|
| monitor template, | In the screenshots below the first NIM template (.apk file) further comprises control | | |
| wherein the definition | characteristics that define the controls and their visual representations (e.g., Horizontally | | |
| of the viewer graphical | scrolling hourly forecast) that are included in the GUI of the first NIM (Weather Channel app). | | |
| user interface and/or | Note the horizontal scrolling example below, in the hourly forecast. | | |
| the first content | | | |
| element define all | | | |
| controls for enabling a | 7:08 = 2 | | |
| user to interact with the | Я ЯSanta Barbara, СА Д : Я Santa Barbara, СА Д : | | |
| first content element | 64° — 64° | | |
| through the viewer | | | |
| graphical user interface. | Cloudy Feels like 64° Feels like 64° | | |
| | Day 69° • Night 59° Day 69° • Night 59° | | |
| | () Marine Weather Statement () Marine Weather Statement | | |
| | Hourly Forecast Hourly Forecast | | |
| | 8 am 9 am 10 am 11 am 1 10 am 11 am 12 pm 1 pm | | |
| | 64° 65° 66° 66° 66° 67° 68° | | |
| | 6% 6% 5% 4% 5% 4% 3% 3% | | |
| | See Details See Details | | |
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| | Latest News Latest News | | |
| | www.TireRack.com Order Today SHOP NOW SHOP NOW SHOP NOW | | |
| | Hourly Daily Change Radar Videos Hourly Daily Change Radar Videos | | |
| | III O < III O < | | |
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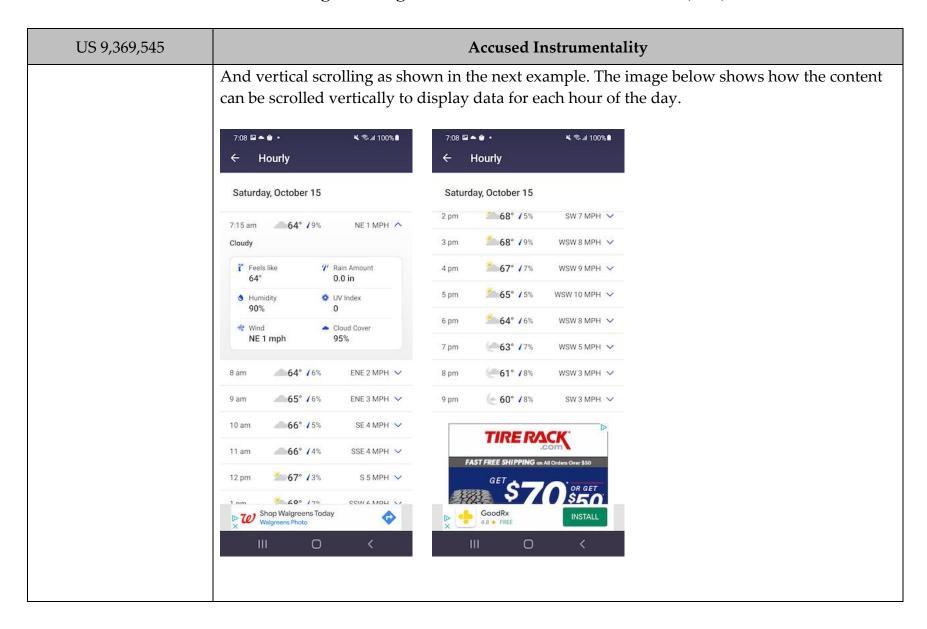
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| US 9,369,545 | Accused Instrumentality |
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| | Additionally, on information and belief, all variations of the Accused Instrumentalities operate in the same infringing manner. |
| 2. The method of claim 1, wherein the definition of the viewer graphical user interface includes a definition of | The Accused Instrumentalities include a definition of the viewer graphical user interface that includes a definition of at least one control effective for controlling an aspect of the viewer graphical user interface, and where presenting the viewer graphical user interface comprises presenting the at least one control. I |
| at least one control effective for controlling an aspect of the viewer graphical user interface, and wherein presenting the viewer graphical | n the example below the NIM template further comprises control characteristics that define one or more visual representations of the controls (e.g., Horizontally scrolling hourly forecast) that are included in the GUI of the first NIM (Weather Channel for Samsung app). Note the horizontal scrolling example below, in the presentation of the hourly forecast. |
| user interface comprises presenting the at least one control. | |

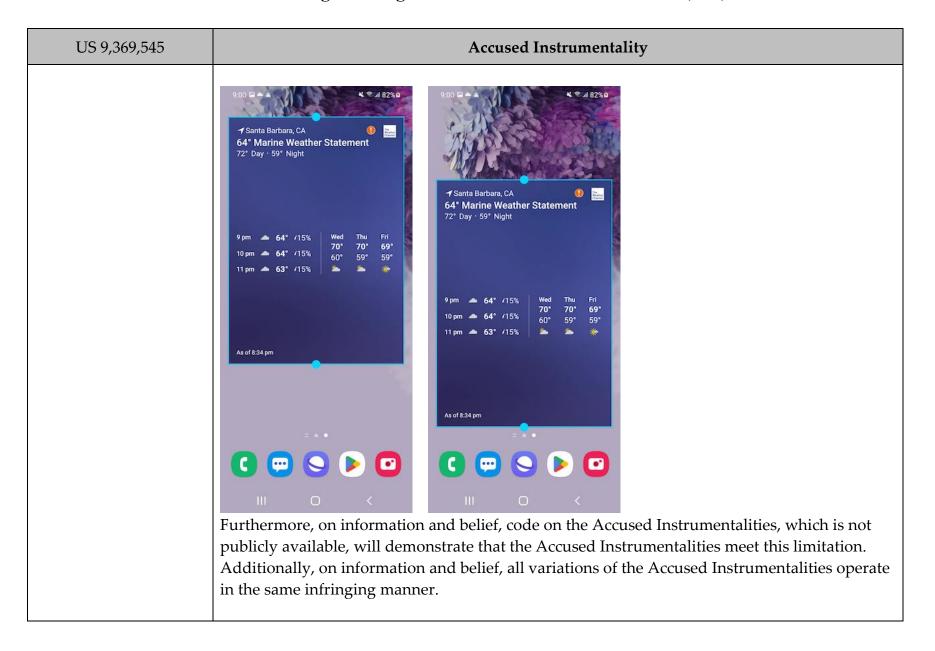




| US 9,369,545 | Accused Instrumentality |
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| 3. The method of claim 2, wherein the aspect is the location at which the user interface is rendered on a display device. | The Accused Instrumentalities employs and provides a method wherein the aspect is the location at which the user interface is rendered on a display device. The aspect ("scrolling hourly forecast") is the location at which the user interface is rendered on the display device (Galaxy Phone). See example below. 708 - 2 |
| | Latest News Latest News Latest News Www.TireRack.com Order Today SHOP NOW Norder Today Norder |

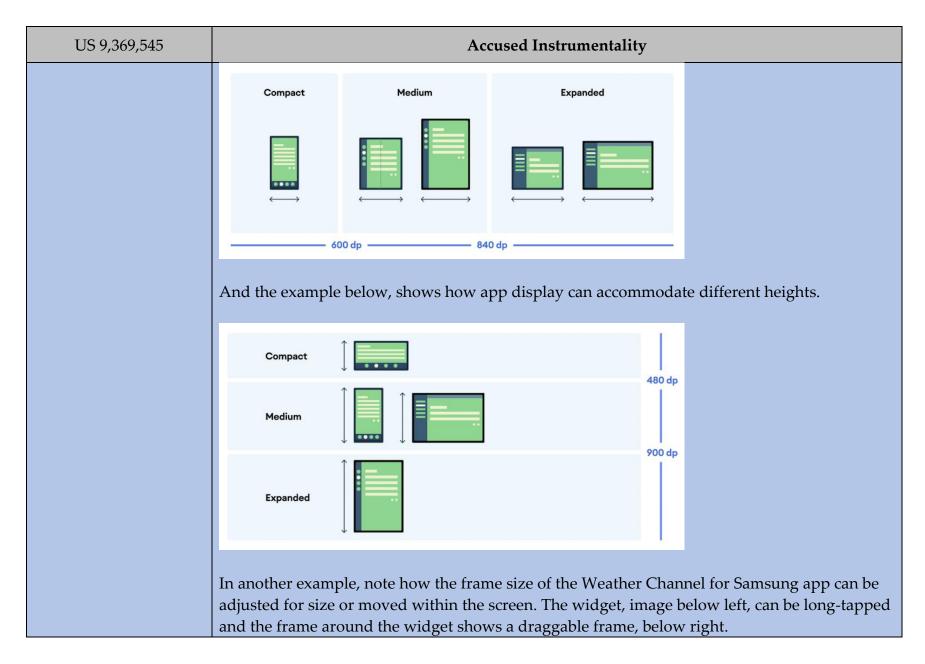


| US 9,369,545 | Accused Instrumentality | | |
|--------------|--|--|--|
| | In another example, note how the frame size of the Weather Channel for Samsung app can be adjusted for size or moved within the screen. The widget, image below left, can be long-tapped and the frame around the widget shows a draggable frame, below right. 900 4 8210 4 Santa Barbara, CA 6 4 Marine Weather Statement 72° Day 59° Night 9pm 6 64° /15% 70° 70° 69° 10pm 6 64° /15% 00° 59° 59° 11pm 6 63° /15% 00° 59° 59° 59° 11pm 6 63° /15% 00° 59° 59° 59° 59° 59° 59° 59° 59° 59° 59 | | |
| | | | |
| | The frame can then be resized below left, or moved as in the image below right. | | |



| US 9,369,545 | Accused Instrumentality |
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| 4. The method of claim 2, wherein the aspect is the size of the user interface when presented on the display of the client | The Accused Samsung Software in each and every Accused Samsung Device employs and provides a method wherein the aspect is the size of the user interface when presented on the display of the client computing device. The Android manifest file is an XML file that is used during development and also used during runtime and exists in binary encoded format as the file named AndroidManifest.xml in the .apk file. |
| computing device. | Per the official Android documentation, the manifest file "lets you specify the screen sizes your application supports and enable screen compatibility mode for screens larger than what your application supports. It's important that you always use this element in your application to specify the screen sizes your application supports." The manifest includes a section defined in XML which specifically relates to screen sizes, as shown below. |
| | <pre><supports-screens "false"]<="" android:resizeable='["true"' td="" =""></supports-screens></pre> |
| | Some of the configurable elements include: android:resizeable: Indicates whether the application is resizeable for different screen sizes. android:smallScreens: Indicates whether the application supports smaller screen form-factors. |

| US 9,369,545 | Accused Instrumentality |
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| | android:normalScreens: Indicates whether an application supports the "normal" screen form-factors. Traditionally this is an HVGA medium density screen, but WQVGA low density and WVGA high density are also considered to be normal android:largeScreens: Indicates whether the application supports larger screen form-factors. android:anyDensity: Indicates whether the application includes resources to accommodate any screen density. Screen density is measured in dDts Per Inch (dpi). android:requiresSmallestWidthDp: Specifies the minimum smallestWidth required. The smallestWidth is the shortest dimension of the screen space (in dp units) that must be available to your application UI—that is, the shortest of the available screen's two dimensions. So, in order for a device to be considered compatible with your application, the device's smallestWidth must be equal to or greater than this value. (Usually, the value you supply for this is the "smallest width" that your layout supports, regardless of the screen's current orientation.) For example, a typical handset screen has a smallestWidth of 320dp, a 7" tablet has a smallestWidth of 600dp, and a 10" tablet has a smallestWidth of 720dp. As an example, apps developed with Android can support completely different layouts. For example, the image below, from the official Android developer documentation shows how the same app can be configured to display differently depending on the screen width. |



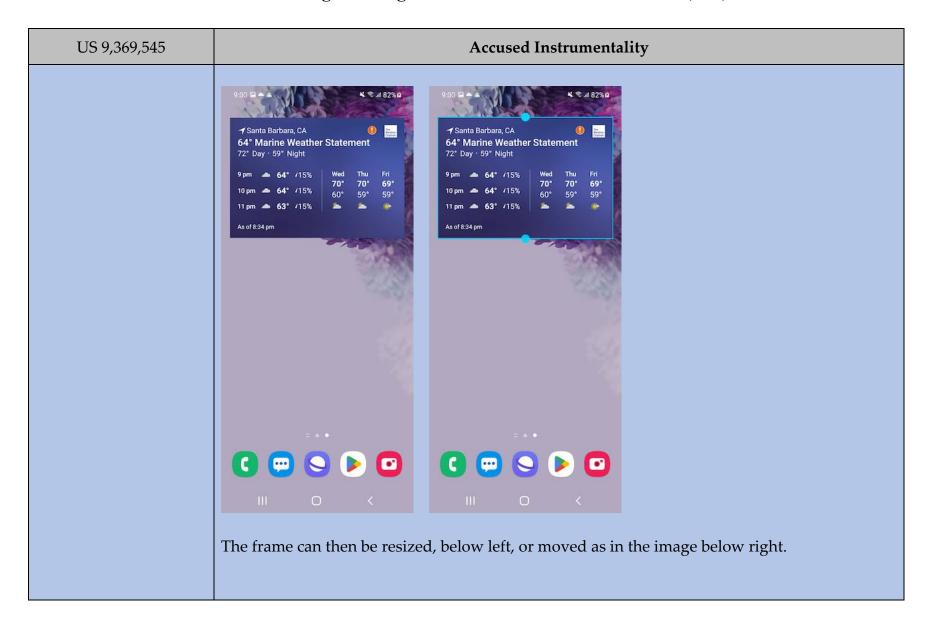
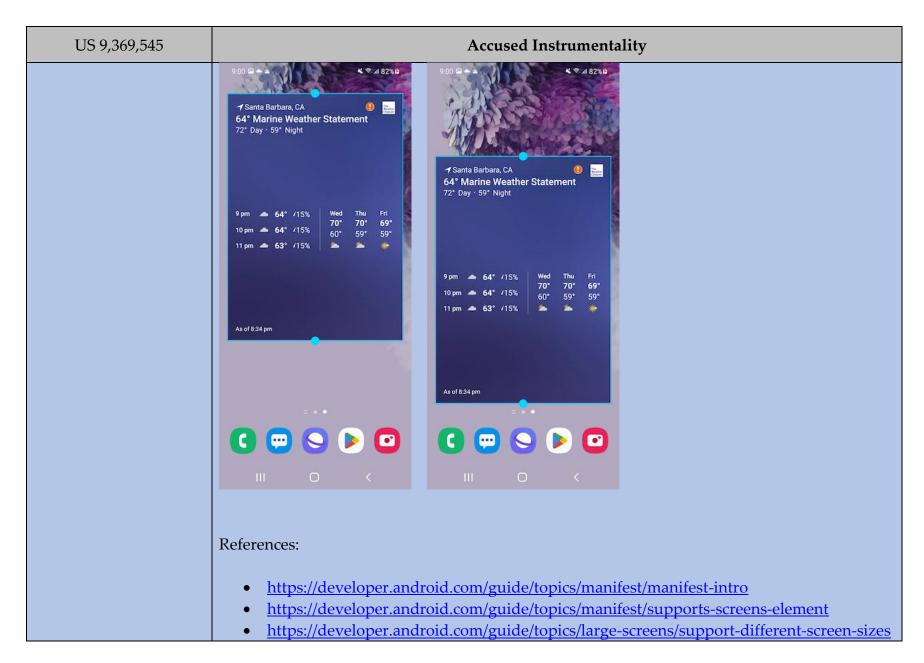


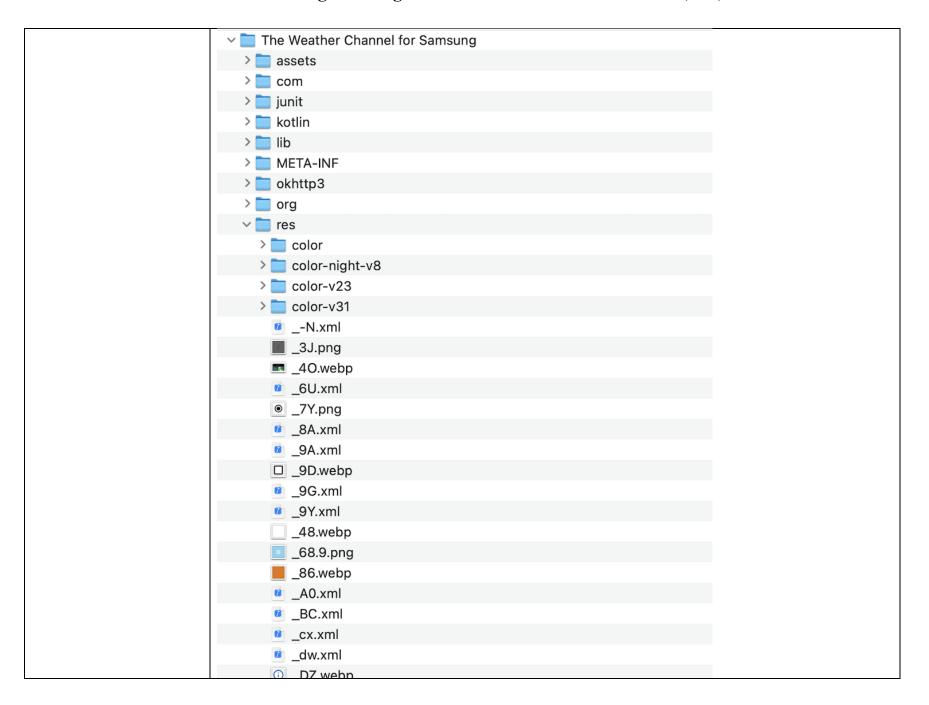
Exhibit C: Samsung's Infringement of United States Patent No. 9,369,545



| US 9,369,545 | Accused Instrumentality |
|---|--|
| | Furthermore, on information and belief, code on the Accused Instrumentalities, which is not publicly available, will demonstrate that the Accused Instrumentalities meet this limitation. Additionally, on information and belief, all variations of the Accused Instrumentalities operate in the same infringing manner. |
| 5. The method of claim 1, wherein the networked information monitor template includes instructions in extensible markup language (XML) format, and further wherein the method further | The Accused Samsung Software in each and every Accused Samsung Device employs and provides a method wherein the networked information monitor template includes instructions in extensible markup language (XML) format, and further wherein the method further comprises parsing the definition of the viewer graphical user interface. For example, the .apk file on the client computing device which includes the NIM template defining the UI includes XML files. In Android development the UI is created using "Layouts" which define 'Views" which are defined in XML and generally create elements the user can view and/or interact with. |
| comprises parsing the definition of the viewer graphical user interface. | "A layout defines the structure for a user interface in your app, such as in an activity. All elements in the layout are built using a hierarchy of View and ViewGroup objects. A View usually draws something the user can see and interact with." According to the Android documentation these elements are created with XML: "Declare UI elements in XML. Android provides a straightforward XML vocabulary that corresponds to the View classes and subclasses, such as those for widgets and layouts. You can also use Android Studio's Layout Editor to build your XML layout using a drag-and-drop interface." |

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| US 9,369,545 | Accused Instrumentality |
|--------------|---|
| | "Declaring your UI in XML allows you to separate the presentation of your app from the code that controls its behavior. Using XML files also makes it easy to provide different layouts for different screen sizes and orientations" "The Android framework gives you the flexibility to use either or both of these methods to build your app's UI. For example, you can declare your app's default layouts in XML, and then modify the layout at runtime." "Write the XML. Using Android's XML vocabulary, you can quickly design UI layouts and the screen elements they contain, in the same way you create web pages in HTML" When developing for Android using Android Studio, Layouts are represented in the user interface as XML. |
| | Once the application is ready for installation on a device, it is converted to an APK file which is a zipped file containing all the project resources. By renaming these files as zip files (changing the file extension from .apk to .zip) the files can be unzipped. After unzipping the apk file, the contents can be viewed as a directory as shown in the image below. Note the resources in the /res directory. These are images used for the UI as well as XML files defining the UI in the NIM template. |



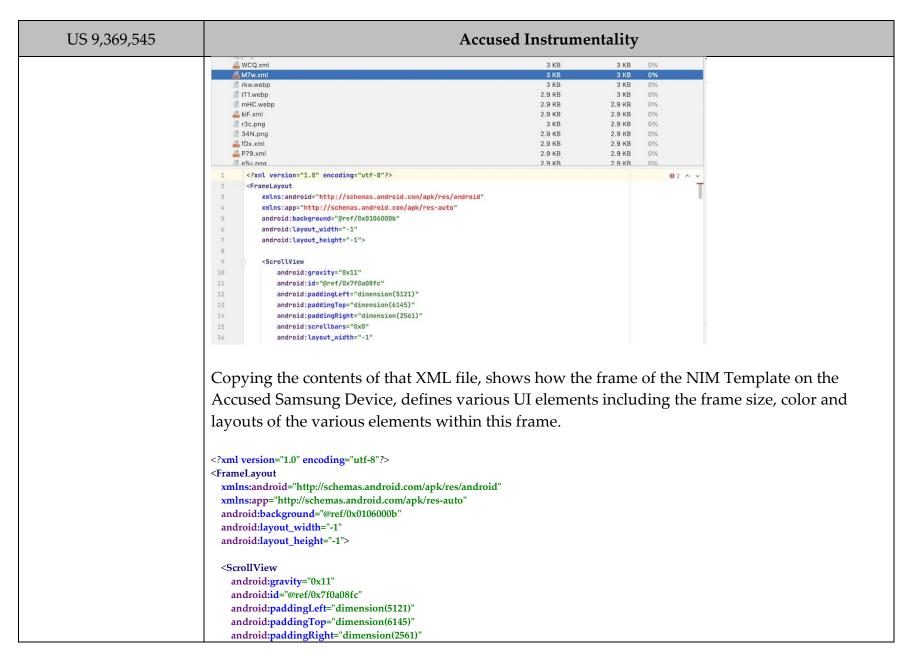
| US 9,369,545 | | Accused In | strumenta | ality | |
|--------------|--|--|--------------------------|---|----------------------------------|
| | can be inspected inspected via the | om the above directory listing using Android Studio. The Al "Profile or Debug APK" feature this capability which displays | PK files ca e. The We | n be opened in Anc ather Channel App | lroid Studio and for Samsung can |
| | • • • | The Weather Channel for Samsung1 – The Weather Channel for Samsung.a | pk | | |
| | The Weather Channel for Samsung1) 🐔 The Weather | Channel for Samsung.apk | sung SM-G981U ▼ 🕨 🛱 🗒 | # G n # ≡ □ 0 Q p □ | |
| | × | — | | : 0 | |
| | The Weather Channel for Samsung1 | Libraries (*.so) in the APK are missing debug symbols com.weather.samsung (Version Name: 10.56.0, Version Code: 1056000116) | | Select library to add debug symbols | |
| | manifests AndroidManifest.xml | APK size: 76.2 MB, Download Size: 40.9 MB | | Compare with previous APK | |
| | > imjava (4 dex files) | Elle | Raw File Size | Download Size% of Total Download Size | |
| | > lili External Libraries | ® BOQ.json | 36.9 KB | 36.9 KB 0.1% | |
| | 8 | ii jd1.webp | 35.6 KB | 35.6 KB 0.1% | |
| | ** | ₫ ZzK.webp | 34.4 KB 34 KB | 34.4 KB 0.1% | |
| | | #m3_text_button_ripple_color_selector.xml | 445 B | 445 B 0% | |
| | | amtri_tabs_ripple_color.xml | 418 B | 418 B 0% | |
| | | mtrl_navigation_bar_ripple_color.xml mail_mail_mail_mail_mail_mail_mail_mail_ | 418 B 375 B | 418 B 0% | |
| | | # mtrl_chip_close_icon_tint.xml | 349 B | 349 B 0% | |
| | | mtrl_tabs_colored_ripple_color.xml mtrl_navigation_bar_colored_ripple_color.xml | 332 B 332 B | 332 B 0% | |
| | | uri_navigation_bar_colored_rippie_color.xml | 326 B | 326 B 0% | |
| | 8 | amtrl_choice_chip_ripple_color.xml | 324 B | 324 B 0% | |
| | rroctu | 1 xml version="1.0" encoding="utf-8"? | | 01 ^ > | |
| | ·- | 2 <selector< td=""><td></td><td>†,</td><td></td></selector<> | | †, | |
| | 2 | <pre>3 xmlns:android="http://schemas.android.com/apk/res/android"></pre> | | u u u u u u u u u u u u u u u u u u u | |
| | okmai | 5 d <iten< td=""><td></td><td>ulator</td><td></td></iten<> | | ulator | |
| | 8 | 6 android:state_checkable="false" | | | |
| | | 7 android:state_pressed="true" | | I De | |
| | riants | <pre>android:color="@attr/0x7f040115" android:alpha="@ref/0x7f07036b" /></pre> | | Ace P | |
| | EA PIE | 10 | | e Ex | |
| | ± | 11 🦁 <iten< td=""><td></td><td>Sorer</td><td></td></iten<> | | Sorer | |
| | Version Control | 12 android:state_focused="true" minal E_Logcat | | Event Log C Layout Inspector | |
| | □ * daemon started successfully (19 minutes ago) | | | % III | |
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| | Zooming in wo | an view the XML resource wh | ich define | e the color of a I II o | lamont |
| | Zooming in we c | an view the Amil resource wil | ici deilile | is the color of a OTE | iciiiciit. |

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|--|-------------------------------|----------------|----------------------|-------|
| v. Per poles | Raw File Size | Download Size% | of Total Download Si | |
| | 34 KB | 34 KB | 0.1% | M. |
| m3_text_button_ripple_color_selector.x | rml 445 B | 445 B | 0% | Ŗ |
| mtrl_tabs_ripple_color.xml | 418 B | 418 B | 0% | Proje |
| mtrl_navigation_bar_ripple_color.xml | 418 B | 418 B | 0% | ect |
| m3_selection_control_ripple_color_sele | ector.xml 375 B | 375 B | 0% | |
| mtrl_chip_close_icon_tint.xml | 349 B | 349 B | 0% | |
| mtrl_tabs_colored_ripple_color.xml | 332 B | 332 B | 0% | |
| mtrl_navigation_bar_colored_ripple_col | lor.xml 332 B | 332 B | 0% | |
| video_chip_ripple_selector.xml | 326 B | 326 B | 0% | |
| mtrl_choice_chip_ripple_color.xml | 324 B | 324 B | 0% | |
| mtrl_text_btn_text_color_selector.xml | 323 B | 323 B | 0% | |
| mtrl_fab_ripple_color.xml | 322 B | 322 B | 0% | |
| mtrl_btn_ripple_color.xml | 322 B | 322 B | 0% | |
| <pre>1 <?xml version="1.0" encoding="utf-</pre></pre> | 8"?> | | 0 1 ^ | ~ |
| 2 <pre><selector< pre=""></selector<></pre> | | | | + |
| <pre>3 xmlns:android="http://schemas.</pre> | android.com/apk/res/android"> | | | ь. |
| 4 | | | | E F |
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| 6 android:state_checkable="f | false" | | | 9 |
| 7 android:state_pressed="tru | je" | | | |
| 8 android:color="@attr/0x7f0 | 940115" | | | D |
| 9 android:alpha="@ref/0x7f0" | 7036b" /> | | | evice |
| 10 | | | | ₽ |
| 11 | | | | E X |
| 12 android:state_focused="tru | ie" | | | olore |

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|--------------|---|---|---|---------------|
| | File Tes Aql.webp Bfr.webp Axwebp Axwebp Axwebp Ayk.webp Ayk.webp Aql.webp | Raw File Size 44.8 MB 7.5 MB 314.6 KB 295 KB 255.4 KB 202.4 KB 203.4 KB 171 KB 151.3 KB 125.2 KB 123.9 KB | Download Size% of Total Download Size 16.1 MB 39.4% 7.3 MB 17.8% 314.7 KB 0.8% 292.3 KB 0.7% 250.2 KB 0.6% 202.5 KB 0.5% 171 KB 0.4% 144.2 KB 0.3% 125.3 KB 0.3% 123.1 KB 0.3% 123.1 KB 0.3% | |
| | iii hv7.gif X ⊞ ⊕ ⊖ 13 □ Ø | 215.8 KB | 114.4 KB 0.3% 708x524 WEBP (32-bit color) 261.5 kB Ca Emulator □ Dev/cc File Explorer | |
| | References • https://developer.android.com • https://developer.android.com • https://developer.android.com | n/studio/profile | _ | ng-layout |
| | In the following example, the resource | ce defines a fra | me as part of the N | IIM template: |

Exhibit C: Samsung's Infringement of United States Patent No. 9,369,545



| US 9,369,545 | Accused Instrumentality |
|--------------|---|
| | android:scrollbars="0x0" |
| | android:layout_width="-1" |
| | android:layout_height="-1"> |
| | <androidx.constraintlayout.widget.constraintlayout< td=""></androidx.constraintlayout.widget.constraintlayout<> |
| | android:orientation="1" |
| | android:id="@ref/0x7f0a08f4" |
| | android:paddingBottom="dimension(51201)" |
| | android:layout_width="-1" |
| | android:layout_height="-2"> |
| | <textview< th=""></textview<> |
| | android:textSize="dimension(6146)" |
| | android:ellipsize="3" |
| | android:id="@ref/0x01020016" |
| | android:layout_width="-2" |
| | android:layout_height="-2" |
| | android:layout_marginLeft="dimension(1281)" |
| | android:layout_marginRight="dimension(1281)" android:text="@ref/0x7f120856" |
| | android:maxLines="2" |
| | android:layout_marginHorizontal="dimension(1281)" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toTopOf="0" |
| | style="@ref/0x7f1306a7" /> |
| | <textview< td=""></textview<> |
| | android:textSize="dimension(4098)" |
| | android:id="@ref/0x7f0a096f" |
| | android:layout_height="-2" |
| | android:layout_marginTop="dimension(1025)" |
| | android:text="@ref/0x7f1208bd" |
| | android:layout_marginStart="@ref/0x7f07064f" |
| | android:layout_marginEnd="@ref/0x7f07064e" |
| | app:layout_constrainedWidth="true" |
| | app:layout_constraintEnd_toEndOf="0" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x01020016" |
| | style="@ref/0x7f1306a6" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a0a2d" |
| | android:visibility="1" |

| US 9,369,545 | Accused Instrumentality |
|--------------|---|
| | android:text="@ref/0x7f120290" |
| | app:layout_constraintEnd_toEndOf="@ref/0x7f0a0426" |
| | app:layout_constraintStart_toStartOf="@ref/0x7f0a096f" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a096f" |
| | style="@ref/0x7f13027c" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a042a" |
| | android:layout_marginTop="dimension(4097)" |
| | android:text="@ref/0x7f1202fd" |
| | android:labelFor="@ref/0x7f0a0427" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a0a2d" |
| | style="@ref/0x7f1306a1" /> |
| | <com.google.android.material.card.materialcardview< td=""></com.google.android.material.card.materialcardview<> |
| | android:id="@ref/0x7f0a01c7" |
| | app:layout_constraintEnd_toStartOf="@ref/0x7f0a0426" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a042a" |
| | style="@ref/0x7f1306a2"> |
| | <edittext< td=""></edittext<> |
| | android:id="@ref/0x7f0a0427" |
| | android:maxLength="32" |
| | android:inputType="0x61" |
| | style="@ref/0x7f13069f" /> |
| | |
| | <imageview< td=""></imageview<> |
| | android:id="@ref/0x7f0a0426" |
| | android:contentDescription="@ref/0x7f1208b2" |
| | app:layout_constraintBottom_toBottomOf="@ref/0x7f0a01c7" |
| | app:layout_constraintEnd_toEndOf="0" |
| | app:layout_constraintTop_toTopOf="@ref/0x7f0a01c7" |
| | style="@ref/0x7f1306a3" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a0429" |
| | android:visibility="1" |
| | android:layout_width="dimension(1)" |
| | android:text="@ref/0x7f1208b1" |
| | app:layout_constraintEnd_toEndOf="0" |

| US 9,369,545 | Accused Instrumentality |
|--------------|---|
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a01c7" |
| | style="@ref/0x7f1306a0" /> |
| | |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a03b4" |
| | android:layout_marginTop="@ref/0x7f070642" |
| | android:text="@ref/0x7f1208ad" |
| | android:labelFor="@ref/0x7f0a03b1" |
| | app:layout_constraintStart_toStartOf="0" app:layout_constraintTop_toBottomOf="@ref/0x7f0a0429" |
| | style="@ref/0x7f1306a1" /> |
| | Style- elelion/11000d1 // |
| | <com.google.android.material.card.materialcardview< td=""></com.google.android.material.card.materialcardview<> |
| | android:id="@ref/0x7f0a01c4" |
| | app:layout_constraintEnd_toStartOf="@ref/0x7f0a03b0" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a03b4" |
| | style="@ref/0x7f1306a2"> |
| | |
| | <edittext< td=""></edittext<> |
| | android:id="@ref/0x7f0a03b1" |
| | android:inputType="0x21" |
| | style="@ref/0x7f13069f" /> |
| | |
| | <imageview< td=""></imageview<> |
| | android:id="@ref/0x7f0a03b0" |
| | android:contentDescription="@ref/0x7f1208af" |
| | app:layout_constraintBottom_toBottomOf="@ref/0x7f0a01c4" |
| | app:layout_constraintEnd_toEndOf="0" |
| | app:layout_constraintTop_toTopOf="@ref/0x7f0a01c4" |
| | style="@ref/0x7f1306a3" /> |
| | $\sigma_{ij} \sigma_{ij} \sigma_{ij}$ |
| | <textview <="" android:id="@ref/0x7f0a03b3" td=""></textview> |
| | |
| | android:layout_width="dimension(1)" android:text="@ref/0x7f1208ac" |
| | android:text=@fe/0x/1120oac app:layout_constraintEnd_toEndOf="0" |
| | app:layout_constraintEnd_toEndtol= 0 app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a01c4" |
| | style="@ref/0x7f1306a0" /> |
| | Style Stellow Illowing p |

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|--------------|---|
| | <textview< th=""></textview<> |
| | android:id="@ref/0x7f0a0298" |
| | android:layout_marginTop="@ref/0x7f070642" |
| | android:text="@ref/0x7f1208a6" |
| | android:labelFor="@ref/0x7f0a0296" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a03b3" |
| | style="@ref/0x7f1306a1" /> |
| | <com.google.android.material.card.materialcardview< td=""></com.google.android.material.card.materialcardview<> |
| | android:id="@ref/0x7f0a01a9" |
| | app:layout_constraintEnd_toStartOf="@ref/0x7f0a0295" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a0298" |
| | style="@ref/0x7f1306a2"> |
| | <com.google.android.material.textfield.textinputedittext< td=""></com.google.android.material.textfield.textinputedittext<> |
| | android:id="@ref/0x7f0a0296" |
| | android:longClickable="false" |
| | android:inputType="0x21" |
| | android:textIsSelectable="false" |
| | style="@ref/0x7f13069f" /> |
| | |
| | <imageview< td=""></imageview<> |
| | android:id="@ref/0x7f0a0295" |
| | android:contentDescription="@ref/0x7f1208a8" |
| | app:layout_constraintBottom_toBottomOf="@ref/0x7f0a01a9" |
| | app:layout_constraintEnd_toEndOf="0" |
| | app:layout_constraintTop_toTopOf="@ref/0x7f0a01a9" |
| | style="@ref/0x7f1306a3" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a0297" |
| | android:layout_width="dimension(1)" |
| | android:text="@ref/0x7f1208ac" |
| | app:layout_constraintEnd_toEndOf="0" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a01a9" |
| | style="@ref/0x7f1306a0" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a0703" |

| US 9,369,545 | Accused Instrumentality |
|--------------|---|
| | android:layout_marginTop="@ref/0x7f070642" |
| | android:text="@ref/0x7f1208b8" |
| | android:labelFor="@ref/0x7f0a06fe" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a0297" |
| | style="@ref/0x7f1306a1" /> |
| | <androidx.cardview.widget.cardview< td=""></androidx.cardview.widget.cardview<> |
| | android:id="@ref/0x7f0a01cf" |
| | app:layout_constraintEnd_toStartOf="@ref/0x7f0a06fd" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a0703" |
| | style="@ref/0x7f1306a2"> |
| | <com.google.android.material.textfield.textinputlayout< td=""></com.google.android.material.textfield.textinputlayout<> |
| | android:id="@ref/0x7f0a0701" |
| | android:layout_width="-1" |
| | android:layout_height="-2" |
| | app:hintEnabled="false" |
| | app:passwordToggleEnabled="true" |
| | app:passwordToggleTint="@ref/0x7f0601d2"> |
| | <com.weather.weatheredittext< td=""></com.weather.weatheredittext<> |
| | android:id="@ref/0x7f0a06ff" |
| | android:maxLength="64" |
| | app:passwordToggleEnabled="true" |
| | app:passwordToggleTint="@ref/0x7f0601d2" |
| | style="@ref/0x7f1303ff" /> |
| | |
| | |
| | <imageview< td=""></imageview<> |
| | android:id="@ref/0x7f0a06fd" |
| | android:contentDescription="@ref/0x7f1208bb" |
| | app:layout_constraintBottom_toBottomOf="@ref/0x7f0a01cf" |
| | app:layout_constraintEnd_toEndOf="0" |
| | app:layout_constraintTop_toTopOf="@ref/0x7f0a01cf" |
| | style="@ref/0x7f1306a3" /> |
| | <textview< td=""></textview<> |
| | android:textStyle="0x0" |
| | android:textColor="@ref/0x7f06048a" |
| | android:id="@ref/0x7f0a0704" |

| US 9,369,545 | Accused Instrumentality |
|--------------|---|
| | android:visibility="0" |
| | android:layout_width="dimension(1)" |
| | android:text="@ref/0x7f120605" |
| | android:contentDescription="@ref/0x7f120606" |
| | app:layout_constraintBottom_toTopOf="@ref/0x7f0a0159" |
| | app:layout_constraintEnd_toEndOf="@ref/0x7f0a06fd" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a01cf" style="@ref/0x7f1306a0" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a0700" |
| | android:visibility="2" |
| | android:layout_width="dimension(1)" |
| | android:text="@ref/0x7f120605" |
| | android:contentDescription="@ref/0x7f120606" |
| | app:layout_constraintBottom_toTopOf="@ref/0x7f0a0159" |
| | app:layout_constraintEnd_toEndOf="@ref/0x7f0a06fd" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a01cf" style="@ref/0x7f1306a0" /> |
| | <androidx.constraintlayout.widget.barrier< td=""></androidx.constraintlayout.widget.barrier<> |
| | android:id="@ref/0x7f0a0159" |
| | android:layout_width="-2" |
| | android:layout_height="-2" |
| | app:barrierDirection="3" |
| | app:constraint_referenced_ids="password_suggestion_textView,password_error_textView" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a02a0" |
| | android:layout_marginTop="@ref/0x7f070642" android:text="@ref/0x7f1208a9" |
| | android:labelFor="@ref/0x7f1200a9" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a0159" |
| | style="@ref/0x7f1306a1" /> |
| | <androidx.cardview.widget.cardview< td=""></androidx.cardview.widget.cardview<> |
| | android:id="@ref/0x7f0a01aa" |
| | app:layout_constraintEnd_toStartOf="@ref/0x7f0a0299" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a02a0" |

| US 9,369,545 | Accused Instrumentality |
|--------------|---|
| | style="@ref/0x7f1306a2"> |
| | <com.google.android.material.textfield.textinputlayout< td=""></com.google.android.material.textfield.textinputlayout<> |
| | android:id="@ref/0x7f0a029e" |
| | android:layout_width="-1" |
| | android:layout_height="-2" |
| | app:hintEnabled="false" |
| | app:passwordToggleContentDescription="@ref/0x7f120602" |
| | app:passwordToggleTint="@ref/0x7f0601d2"> |
| | <com.google.android.material.textfield.textinputedittext< td=""></com.google.android.material.textfield.textinputedittext<> |
| | android:id="@ref/0x7f0a029b" |
| | android:longClickable="false" |
| | android:maxLength="64" |
| | android:textIsSelectable="false" |
| | app:passwordToggleContentDescription="@ref/0x7f120602" |
| | app:passwordToggleTint="@ref/0x7f0601d2" |
| | style="@ref/0x7f1303ff" /> |
| | |
| | |
| | <imageview< td=""></imageview<> |
| | android:id="@ref/0x7f0a0299" |
| | android:contentDescription="@ref/0x7f1208ab" |
| | app:layout_constraintBottom_toBottomOf="@ref/0x7f0a01aa" |
| | app:layout_constraintEnd_toEndOf="0" |
| | app:layout_constraintTop_toTopOf="@ref/0x7f0a01aa" |
| | style="@ref/0x7f1306a3" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a029d" |
| | android:layout_width="dimension(1)" |
| | android:text="@ref/0x7f1208b5" |
| | app:layout_constrainedWidth="true" |
| | app:layout_constraintEnd_toEndOf="0" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a01aa" |
| | style="@ref/0x7f1306a0" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a0457" |
| | android:layout_width="-2" |
| | android:layout_marginTop="@ref/0x7f070642" |

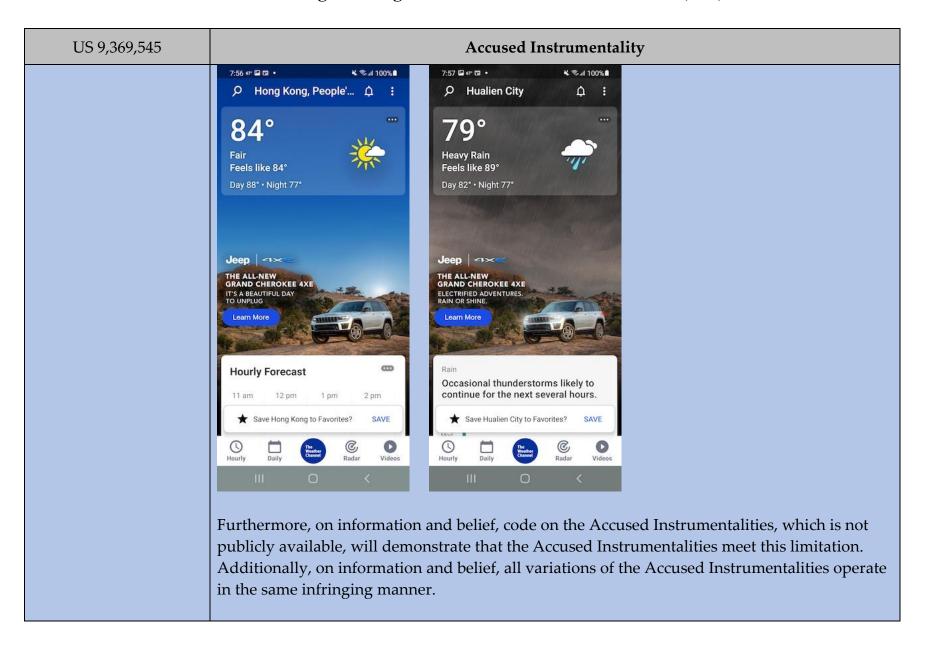
| US 9,369,545 | Accused Instrumentality |
|--------------|---|
| | android:text="@ref/0x7f120332" |
| | android:labelFor="@ref/0x7f0a0454" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a029d" |
| | style="@ref/0x7f1306a1" /> |
| | <imageview< td=""></imageview<> |
| | android:id="@ref/0x7f0a045b" |
| | android:layout_width="dimension(4097)" |
| | android:layout_height="dimension(4097)" |
| | android:layout_marginTop="dimension(1025)" |
| | android:src="@ref/0x7f080274" |
| | android:contentDescription="@ref/0x7f1203a6" |
| | android:layout_marginStart="dimension(2561)" |
| | app:layout_constraintBottom_toBottomOf="@ref/0x7f0a0457" |
| | app:layout_constraintStart_toEndOf="@ref/0x7f0a0457" /> |
| | <com.google.android.material.card.materialcardview< td=""></com.google.android.material.card.materialcardview<> |
| | android:id="@ref/0x7f0a01c8" |
| | app:layout_constraintEnd_toStartOf="@ref/0x7f0a0453" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a0457" |
| | style="@ref/0x7f1306a2"> |
| | <com.google.android.material.textfield.textinputlayout< td=""></com.google.android.material.textfield.textinputlayout<> |
| | android:id="@ref/0x7f0a0455" |
| | app:boxBackgroundColor="@ref/0x0106000d" |
| | app:boxStrokeWidth="dimension(1)" |
| | app:endIconDrawable="@ref/0x7f080228" |
| | app:endIconTint="@ref/0x7f0601d2" |
| | style="@ref/0x7f130402"> |
| | <com.weather.weather.ui.keyvaluedropdownview< td=""></com.weather.weather.ui.keyvaluedropdownview<> |
| | android:textColor="@ref/0x7f0604ff" |
| | android:id="@ref/0x7f0a0454" |
| | android:background="@ref/0x00000000" |
| | android:inputType="0x1" |
| | style="@ref/0x7f130400" /> |
| | |
| | |
| | <imageview <<="" td=""></imageview> |
| | android:id="@ref/0x7f0a0453" |

| US 9,369,545 | Accused Instrumentality |
|--------------|--|
| | android:contentDescription="@ref/0x7f1208b3" |
| | app:layout_constraintBottom_toBottomOf="@ref/0x7f0a01c8" |
| | app:layout_constraintEnd_toEndOf="0" |
| | app:layout_constraintTop_toTopOf="@ref/0x7f0a01c8" |
| | style="@ref/0x7f1306a3" /> |
| | <checkbox< td=""></checkbox<> |
| | android:gravity="0x30" |
| | android:id="@ref/0x7f0a08f3" |
| | android:paddingTop="dimension(769)" |
| | android:layout_width="-2" |
| | android:layout_height="-2" |
| | android:layout_marginTop="@ref/0x7f070642" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a01c8" |
| | style="@ref/0x7f1306a6" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a01e7" |
| | android:layout_width="dimension(1)" |
| | android:layout_height="-2" |
| | android:layout_marginStart="dimension(1793)" |
| | android:layout_marginEnd="@ref/0x7f07064e" |
| | android:labelFor="@ref/0x7f0a08f3" |
| | app:layout_constrainedWidth="true" |
| | app:layout_constraintBottom_toBottomOf="@ref/0x7f0a08f3" |
| | app:layout_constraintEnd_toEndOf="0" |
| | app:layout_constraintStart_toEndOf="@ref/0x7f0a08f3" |
| | app:layout_constraintTop_toTopOf="@ref/0x7f0a08f3" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a0a35" |
| | android:layout_marginTop="dimension(1537)" |
| | android:text="@ref/0x7f1208c3" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a01e7" |
| | style="@ref/0x7f1306a0" /> |
| | <button< td=""></button<> |
| | android:textColor="@ref/0x7f060501" |
| | android:id="@ref/0x7f0a0192" |
| | android:background="@ref/0x7f080071" |
| | android:layout_marginTop="dimension(7681)" |

| US 9,369,545 | Accused Instrumentality |
|--------------|--|
| | android:text="@ref/0x7f120850" |
| | android:key="sign_up_button" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a0a35" |
| | style="@ref/0x7f130004" /> |
| | <textview< td=""></textview<> |
| | android:id="@ref/0x7f0a0122" |
| | android:layout_width="-2" |
| | android:layout_marginTop="@ref/0x7f070642" |
| | android:text="@ref/0x7f1206c9" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a0192" |
| | style="@ref/0x7f1306a6" /> |
| | <textview< td=""></textview<> |
| | android:textColor="@ref/0x7f06000a" |
| | android:id="@ref/0x7f0a05a6" |
| | android:text="@ref/0x7f12083b" |
| | android:layout_marginStart="dimension(2049)" |
| | app:layout_constraintBottom_toBottomOf="@ref/0x7f0a0122" |
| | app:layout_constraintStart_toEndOf="@ref/0x7f0a0122" |
| | style="@ref/0x7f1306a6" /> |
| | <textview< td=""></textview<> |
| | android:textColor="@ref/0x7f0601c2" |
| | android:id="@ref/0x7f0a017b" |
| | android:visibility="2" |
| | android:layout_width="-1" |
| | android:layout_marginTop="@ref/0x7f070642" |
| | android:layout_marginStart="@ref/0x7f07064f" |
| | android:layout_marginEnd="@ref/0x7f07064e" |
| | app:layout_constraintStart_toStartOf="0" |
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a0122" |
| | style="@ref/0x7f1306a6" /> |
| | <textview< td=""></textview<> |
| | android:textColor="@ref/0x7f06000a" |
| | android:id="@ref/0x7f0a09bd" |
| | android:layout_marginTop="@ref/0x7f070642" |
| | android:text="@ref/0x7f1208c4" |
| | android:paddingEnd="dimension(2561)" |
| | app:layout_constraintStart_toStartOf="0" |

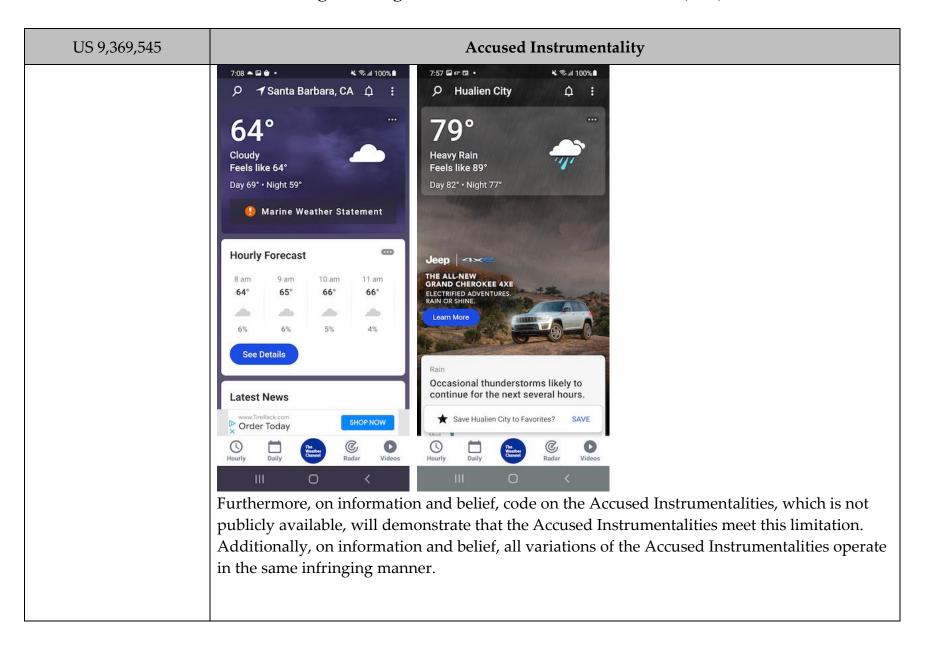
| US 9,369,545 | Accused Instrumentality |
|--------------|---|
| | app:layout_constraintTop_toBottomOf="@ref/0x7f0a017b" style="@ref/0x7f1306a6" /> |
| | <textview android:id="@ref/0x7f0a038e" android:importantforaccessibility="2" android:text=" " app:layout_constraintbottom_tobottomof="@ref/0x7f0a09bd" app:layout_constraintstart_toendof="@ref/0x7f0a09bd" app:layout_constrainttop_totopof="@ref/0x7f0a09bd" style="@ref/0x7f1306a6"></textview> |
| | <textview android:id="@ref/0x7f0a0787" android:paddingstart="dimension(2561)" android:text="@ref/0x7f1208be" android:textcolor="@ref/0x7f06000a" app:layout_constraintbottom_tobottomof="@ref/0x7f0a09bd" app:layout_constraintstart_toendof="@ref/0x7f0a038e" style="@ref/0x7f1306a6"></textview> |
| | <pre><progressbar android:id="@ref/0x7f0a0792" android:indeterminatetint="@ref/0x7f06045f" android:layout_gravity="0x11" android:layout_height="@ref/0x7f070691" android:layout_width="@ref/0x7f070691" android:ontentdescription="@ref/0x7f1208f8" android:visibility="1"></progressbar> Furthermore, on information and belief, code on the Accused Instrumentalities, which is not publicly available, will demonstrate that the Accused Instrumentalities meet this limitation. Additionally, on information and belief, all variations of the Accused Instrumentalities operate</pre> |
| | in the same infringing manner. |

| US 9,369,545 | Accused Instrumentality |
|---------------------------|--|
| 6. The method of claim | The Accused Samsung Software in each and every Accused Samsung Device employs and |
| 1, wherein the | provides a method wherein the definition of the viewer graphical user interface defined by the |
| definition of the viewer | networked information monitor template comprises an image, and wherein presenting the |
| graphical user interface | viewer graphical user interface defined by the networked information monitor template on the |
| defined by the | display of the client computing device comprises presenting the image included in the |
| networked information | definition as part of the viewer graphical user interface. |
| monitor template | |
| comprises an image, | The definition of the viewer GUI defined by the NIM template comprises an image, where it |
| and wherein presenting | presents the viewer GUI defined by the NIM template on the display of the client computing |
| the viewer graphical | device, presents the image included in the definition as part of the viewer graphical user |
| user interface defined | interface. |
| by the networked | |
| information monitor | In the example below, note how the weather in Hong Kong is sunny and the icon as well as |
| template on the display | background image reflects that. The image on the right shows rain in Taiwan. The icon as well |
| of the client computing | as the background image also reflect that. Notice the background image is customized with |
| device comprises | raindrops. |
| presenting the image | |
| included in the | |
| definition as part of the | |
| viewer graphical user | |
| interface. | |



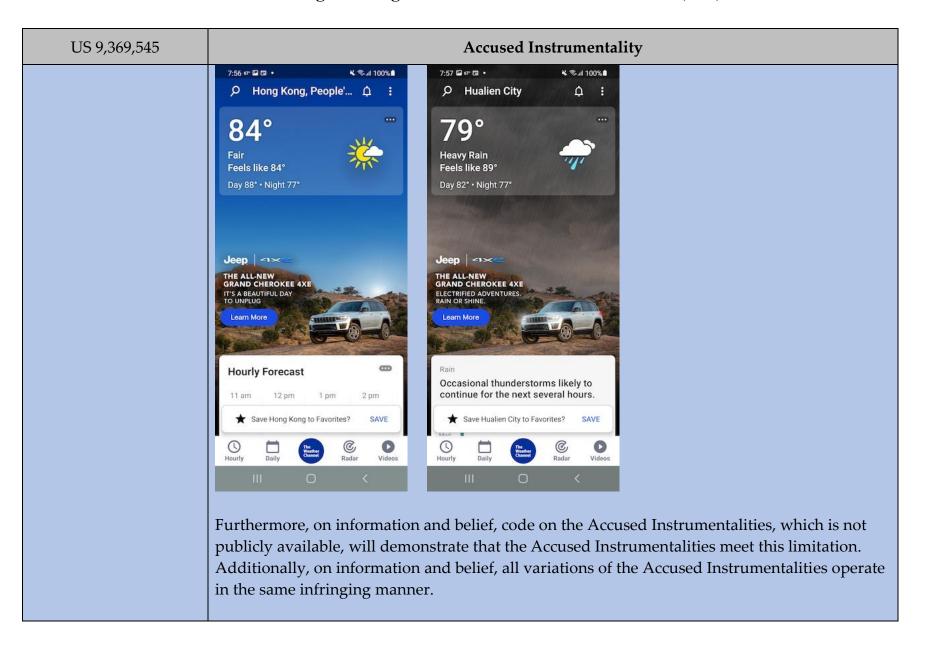
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| US 9,369,545 | Accused Instrumentality |
|---|---|
| 7. The method claim 6, wherein presenting the received the first content element in the viewer graphical user interface defined by the | The Accused Instrumentalities employ and provide a method wherein presenting the received first content element in the viewer graphical user interface defined by the networked information monitor template comprises presenting the received first content element in association with the image. |
| networked information monitor template comprises presenting the received the first content element in association with the image. | Clicking the 'Weather Channel for Samsung' app icon will lead to content that the App provides. See the image below from the 'Weather Channel App' presenting content elements in association with the Weather Channel for Samsung' current weather in the GUI, defined by the NIM template. |

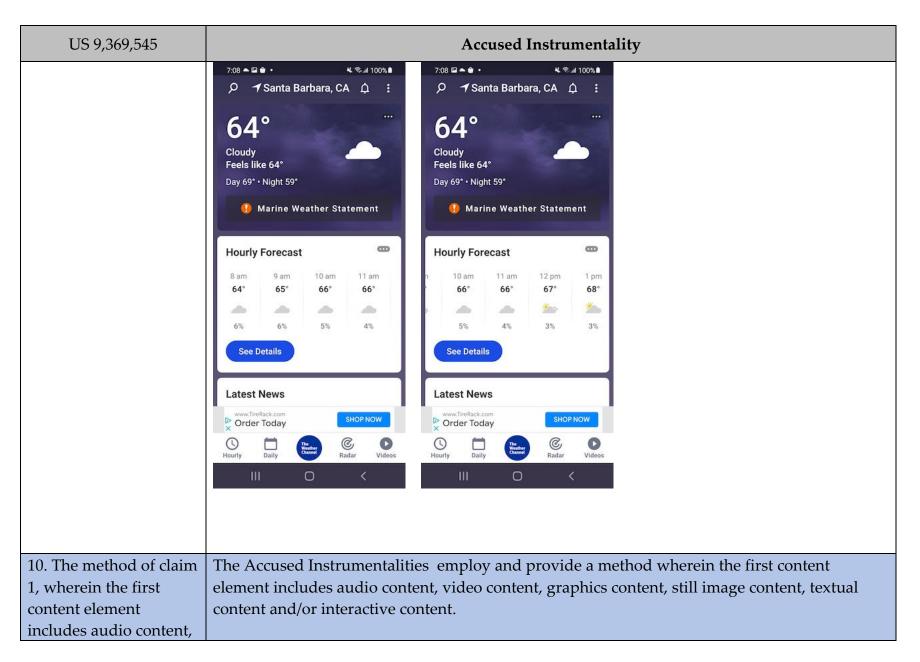


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| US 9,369,545 | Accused Instrumentality |
|--------------------------|--|
| 8. The method of claim | The Accused Instrumentalities employs and provides a method wherein presenting the |
| 6, wherein presenting | received first content element in the viewer graphical user interface defined by the networked |
| the received the first | information monitor template comprises presenting the received first content element at least |
| content element in the | in part within the image. (sun is image and sunny is the content element) |
| viewer graphical user | |
| interface defined by the | First content element received in the viewer GUI that is defined by the NIM Template, within |
| networked information | the image. |
| monitor template | |
| comprises presenting | |
| the received the first | |
| content element at least | |
| in part within the | |
| image. | |



| US 9,369,545 | Accused Instrumentality |
|---------------------------|---|
| 9. The method of claim | The Accused Instrumentalities employs and provides a method wherein the definition of the |
| 1, wherein the | viewer graphical user interface defines at least one control (horizontal scroll of hourly forecast) |
| definition of the viewer | permitting the modification of the appearance of the viewer graphical user interface defined by |
| graphical user interface | the networked information monitor template, and wherein presenting the viewer graphical |
| defines at least one | user interface defined by the networked information monitor template on the display of the |
| control permitting the | client computing device comprises presenting the at least one control. |
| modification of the | |
| appearance of the | In the example below, the definition of the viewer GUI defines at least one control of |
| viewer graphical user | modification of the appearance of the viewer GUI (e.g., horizontal scrolling of hourly forecast), |
| interface defined by the | defined by the NIM template (.APK file). Presentation of the viewer GUI defined by the NIM |
| networked information | template on the display of the client computing device (Samsung Device) comprises presenting |
| monitor template, and | at least one control (e.g., horizontal scrolling of time throughout the day, hourly). |
| wherein presenting the | |
| viewer graphical user | |
| interface defined by the | |
| networked information | |
| monitor template on | |
| the display of the client | |
| computing device | |
| comprises presenting | |
| the at least one control. | |

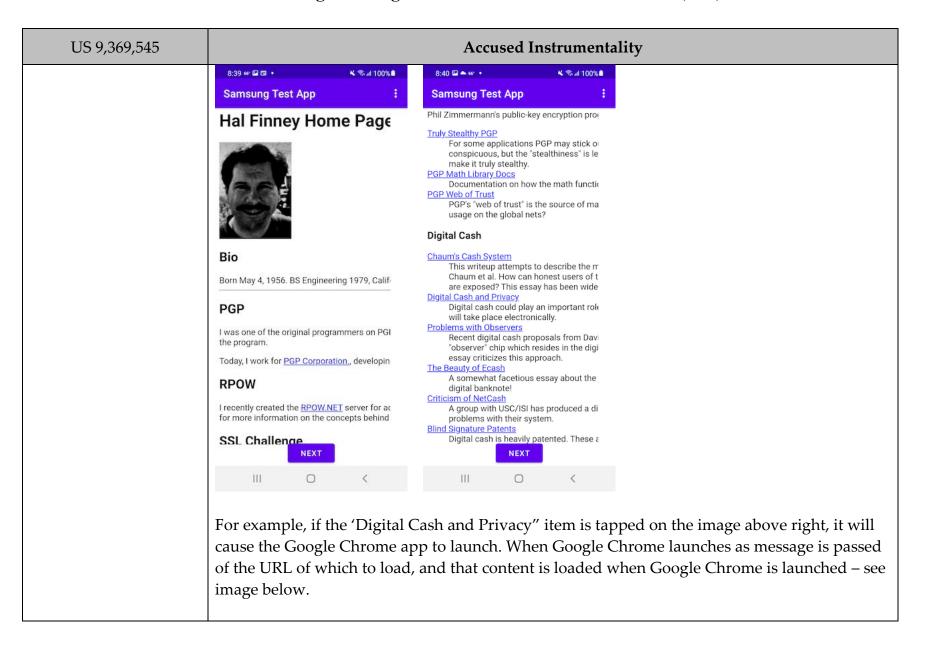


US 9,369,545 **Accused Instrumentality** In all of the Samsung Devices below, the first content element includes some or all of audio video content, graphics content, still image content, video content, graphics content, still image content, textual content, and/or interactive content out of any and all of the first elements which are apps. In the example below, the image content, textual content and/or interactive on the left displays first. Then after a few seconds, the middle panel (that reads "occasional content. thunderstorms likely to...." Slides down and reveals an advertisement (the 'Energizer" bunny) which is a video advertisement in which the bunny dances. 8:28 6 5 - • ¥ % all 100% ■ 8:29 🖼 🖝 🖼 🔹 ¥ % al 100% ■ A Hualien City A Hualien City Δ : 79° 79° Rain Feels like 89° Feels like 89° Day 81° · Night 77° Occasional thunderstorms likely to continue for the next several hours. Rain can't Heavy stop longlasting power Stock Up Energizer Occasional thunderstorms likely to continue for the next several hours. **BFGoodrich Tire Promotion** (1) Videos 0

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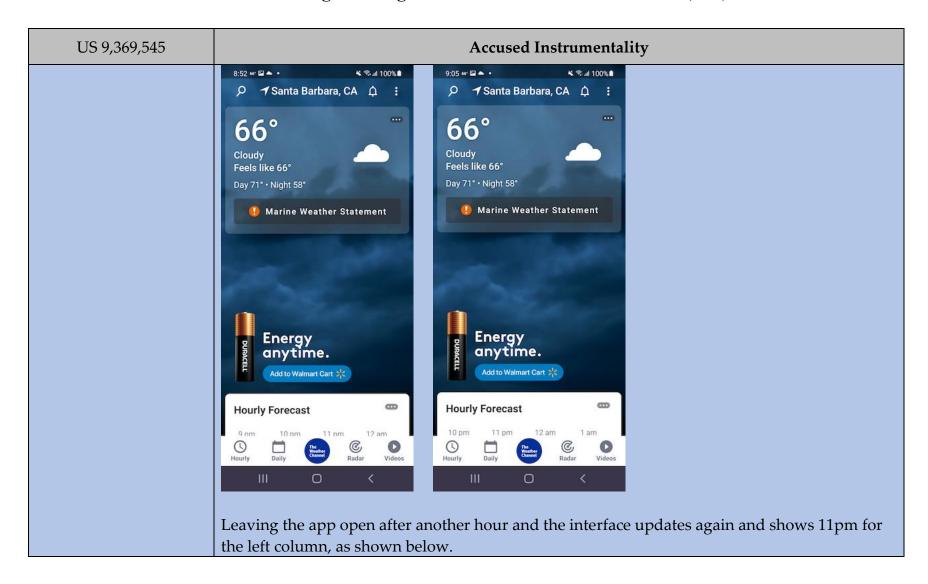
| US 9,369,545 | Accused Instrumentality |
|--|--|
| | Furthermore, on information and belief, code on the Accused Instrumentalities, which is not publicly available, will demonstrate that the Accused Instrumentalities meet this limitation. Additionally, on information and belief, all variations of the Accused Instrumentalities operate in the same infringing manner. |
| 12. The method of claim 1, further comprising causing the networked information monitor to communicate with another networked information monitor. | The Accused Instrumentalities employ and providesa method causing the networked information monitor to communicate with another networked information monitor. In the example below, we configured our test application to view HTML content from within the NIM. This is shown in the image below left. If we scroll down some links are presented. These links cause another app to be launched. |

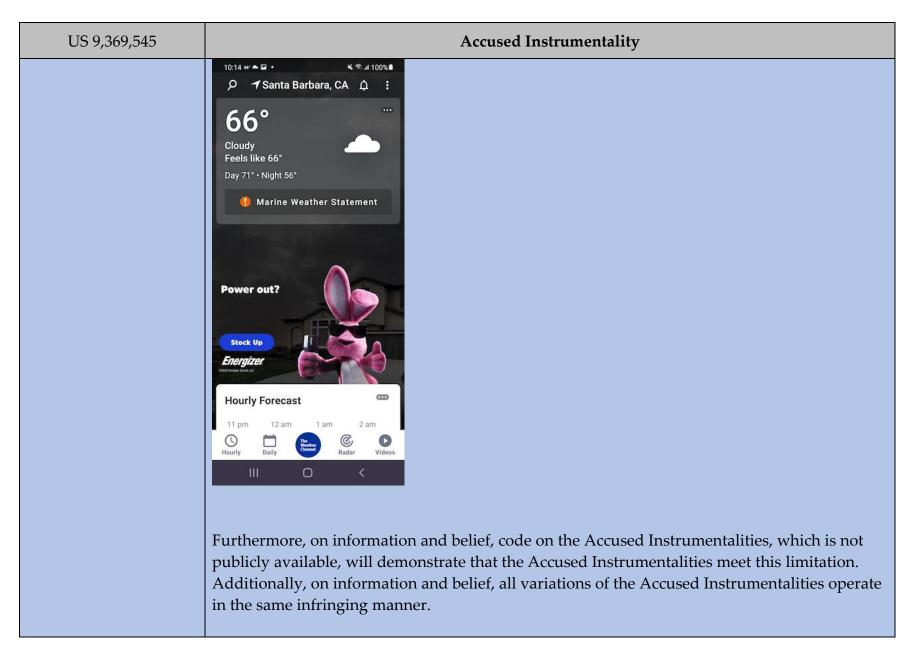
Exhibit C: Samsung's Infringement of United States Patent No. 9,369,545



| US 9,369,545 | Accused Instrumentality |
|-------------------------|---|
| | 8:40 ☐ ♠ · · · · · · · · · · · · · · · · · · |
| | ↑ fennetic.net/irc/finney.o 8 : |
| | Digital Cash & Privacy |
| | 19 Aug 93 |
| | I agree with Anonymous that there are problems with the actual use of digital cash in the near term. But it depends to some extent on what problem you are trying to solve. |
| | One concern I have is that the move to electronic payments will decrease personal privacy by making it easier to log and record transactions. Dossiers could be built up which would track the spending patterns of each of us. |
| | Already, when I order something over the phone or electronically using my Visa card, a record is kept of exactly how much I spent and where I spent it. As time goes on, more transactions may be done in this way, and the net result could be a great loss of privacy. |
| | Paying in cash is still possible through the mail, but it is insecure and inconvenient. I think that the convenience of credit and debit cards will overcome most people's privacy concerns and that we will find ourselves in a situation where great volumes of information exist about people's private lives. |
| | This is a place that I could see digital cash playing a role. Imagine a Visa-like system in which I am not anonymous to the bank. |
| | Furthermore, on information and belief, code on the Accused Instrumentalities, which is not |
| | publicly available, will demonstrate that the Accused Instrumentalities meet this limitation. |
| | Additionally, on information and belief, all variations of the Accused Instrumentalities operate |
| | in the same infringing manner. |
| | |
| 13. The method of claim | The Accused Instrumentalities employs and provides a method wherein the networked |
| 1, wherein the | information monitor is configured to cause the client computing device to periodically request |

| US 9,369,545 | Accused Instrumentality |
|--------------------------|--|
| networked information | the first content element from the first network location referenced by the definition the first |
| monitor is configured | content element for the networked information template and to present the received first |
| to cause the client | content element within the viewer graphical user interface in an ongoing manner. |
| computing device to | |
| periodically request the | Note in the example below, the Weather Channel for Samsung app automatically, without |
| first content element | intervention, adjusted the time. In the image below left, before 9pm showed a timeline at |
| from the first network | bottom that began a 9pm. A few minutes after 9pm, the screen automatically updated to show |
| location referenced by | 10pm as the left most column on the hourly forecast. |
| the definition the first | |
| content element for the | |
| networked information | |
| monitor template and | |
| to present the received | |
| first content element | |
| within the viewer | |
| graphical user interface | |
| in an ongoing manner. | |





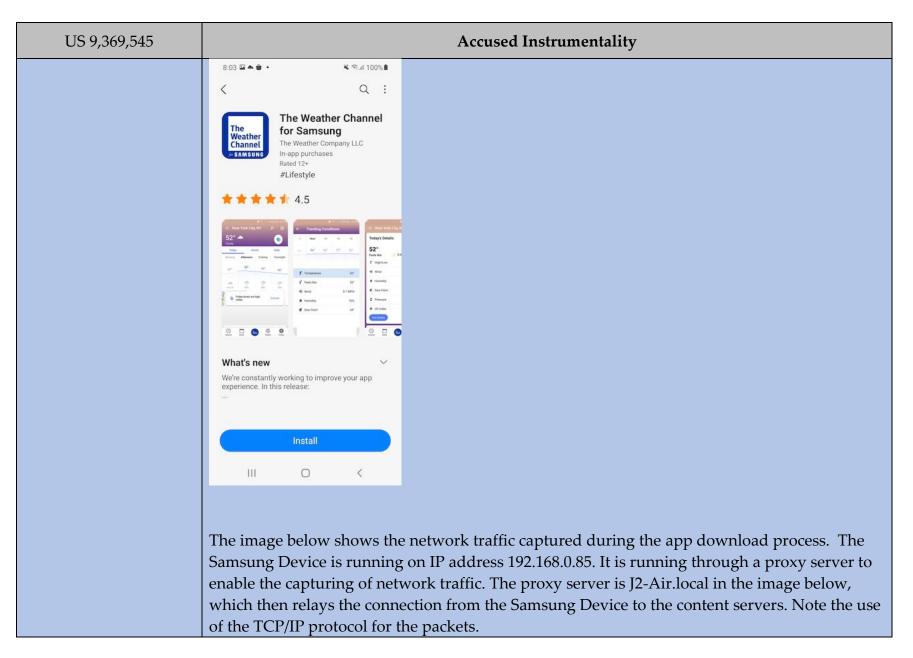
| US 9,369,545 | Accused Instrumentality |
|---|--|
| 14. The method of claim 1, wherein the network is the internet. | The Accused Instrumentalities employs and provides a method wherein the network is the internet. For example, after the Weather Channel for Samsung app is installed for the first time, we run the app and monitor the network traffic. This results in the following TCP/IP network traffic. |
| | For this example, the proxy server is IP address 192.168.0.248 and the Samsung Device is running on IP address 192.168.0.85. These TCP/IP packets resulting from running the app are shown in the following three Wireshark screenshots. |
| | 18 1.2006 192.168.08.208 192.168.08.208 192.168.0.20 |
| | Frame 6: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface en0, id 0 Ethernet II, Src: Apple_ebibit1 (60:65:7c:ebibbit1), 0st: [7:98:362:89:399) Intermet Protocol Version 4, Src: 197:168-0, 2481, 0st: 197:168-0, 850 (197:168-0, 85) Vicansission Control Protocol, Src Port: 6889, Dit Port: 597.68, Seq: 1, Acx: 510, Len: 0 Destination Port: 597.68 [Stream index: 0] [Conversation Completeness: Incomplete (60)] ITCP Segment Len: 0] Sequence Number: 1 (relative sequence number) |
| | paddre=192.168.0.85 or ipaddre=192.168.0.248 Destination Protocol Length Info Sure Destination Protocol Length Info S24 Rede864 192.168.0.248 192. |

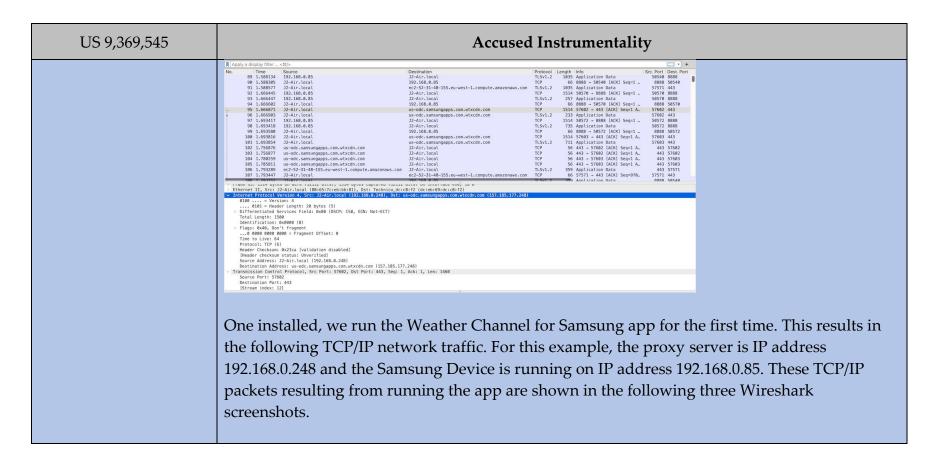
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|---|---|
| | Part Part |
| 15. The method of claim 1, wherein the networked information template further comprising a definition of a second content | The Accused Instrumentalities employ and provide a method wherein the networked information template further comprising a definition of a second content element for the networked information monitor template, the definition of the second content element referencing a second network location from which the second content element for the networked information monitor template is served over the network. |

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|--------------------------|--|
| element for the | Furthermore, on information and belief, code on the Accused Instrumentalities, which is not |
| networked information | publicly available, will demonstrate that the Accused Instrumentalities meet this limitation. |
| monitor template, the | Additionally, on information and belief, all variations of the Accused Instrumentalities operate |
| definition of the second | in the same infringing manner. |
| content element | |
| referencing a second | |
| network location from | |
| which the second | |
| content element for the | |
| networked information | |
| monitor template is | |
| served over the | |
| network, and wherein | |
| the method further | |
| comprises: | |
| responsive to | The Accused Instrumentalities employs and provides a method that is responsive to |
| instructions included in | instructions included in the requested networked information monitor template, transmitting |
| the requested | over the network a second content request to the second network location referenced by the |
| networked information | definition of the second content element for the networked information monitor template. |
| monitor template, | |
| transmitting over the | Furthermore, on information and belief, code on the Accused Instrumentalities, which is not |
| network a second | publicly available, will demonstrate that the Accused Instrumentalities meet this limitation. |
| content request to the | Additionally, on information and belief, all variations of the Accused Instrumentalities operate |
| second network | in the same infringing manner. |
| location referenced by | |
| the definition of the | |
| second content element | |

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|------------------------|---|
| for the networked | |
| information monitor | |
| template; | |
| receiving, over the | Capturing network traffic from the app shows how it received the second content element from |
| network, the second | the Internet. The Accused Instrumentalities employs and provides the method of responding |
| content element | to reception of the further networked information monitor template from the server, storing the |
| transmitted responsive | received further networked information monitor template to the electronic storage. The |
| to the second content | screenshot below shows the screen that is displayed when a user taps to install the Weather |
| request; and | Channel for Samsung app from the Galaxy Store app. |
| | |





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| | |
| presenting the received second content element in the viewer graphical user interface defined by the networked information monitor | The Accused Instrumentalities presents the received second content element in the viewer graphical user interface defined by the networked information monitor template, wherein the definition of the viewer graphical user interface and/or the second content element define all controls for enabling a user to interact with the second content element through the viewer graphical user interface. |
| template, wherein the definition of the viewer | The Accused Instrumentalities receives the second content element in the viewer graphical user interface defined by the NIM template as shown below. |

US 9,369,545 **Accused Instrumentality** The first content element presented is the top box of temperature, rain, feels like, and raining graphical user interface and/or the second cloud image. Upon scrolling down the second content element is the weather radar map in the content element define below left example. 8:28 🐠 🖼 🌥 🔹 ¥ %ull 100%₫ 8:29 🖼 🖝 🖼 🔹 ¥ ® al 100% ■ all controls for enabling A Hualien City A Hualien City ф: a user to interact with the second content 79° 79° element through the viewer graphical user Feels like 89° Feels like 89° interface. Day 81° · Night 77° Occasional thunderstorms likely to continue for the next several hours. Rain can't stop longlasting power Stock Up Energizer Occasional thunderstorms likely to continue for the next several hours. BFGoodrich Tire Promotion (1) Videos Videos 0

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